

# ARCHITECTURAL TERRA COTTA

STANDARD  
CONSTRUCTION

NATIONAL TERRA COTTA SOCIETY  
U.S.A.



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# ARCHITECTURAL TERRA COTTA

· STANDARD ·  
CONSTRUCTION

NATIONAL  
TERRA COTTA SOCIETY

METROPOLITAN  
BUILDING

U · S · A

NEW YORK CITY  
NEW YORK



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AT 1932

CLARK

1932

1932

1932

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## *Foreword*

THE use of burned clay ware in the form of brick, tile or pottery has been uninterrupted and universal from the dawn of civilization to the present day. The use of burned clay in the form of Architectural Terra Cotta has been more sporadic and local. Its unequalled merits as a building material were fully appreciated by the Greeks and Tuscans who, two thousand years ago, used it to face the perishable stone in some of their Temples. Centuries passed, during which the art of making Architectural Terra Cotta seems to have been confined to short periods and to a few localities. In modern times the creator of the skyscraper—the progressive American Architect—working with the responsive and enterprising Manufacturer, re-discovered, improved and gave to an appreciative Public this most durable and versatile of all building materials.

Today it is a matter of common knowledge among Architects that modern Terra Cotta possesses many superior qualities; that it may be economically made in an endless variety of forms and colors; that, if well made, properly set and carefully pointed, it is permanently enduring and resists successfully the ravages of water and fire; that it combines lightness with strength and beauty with usefulness.

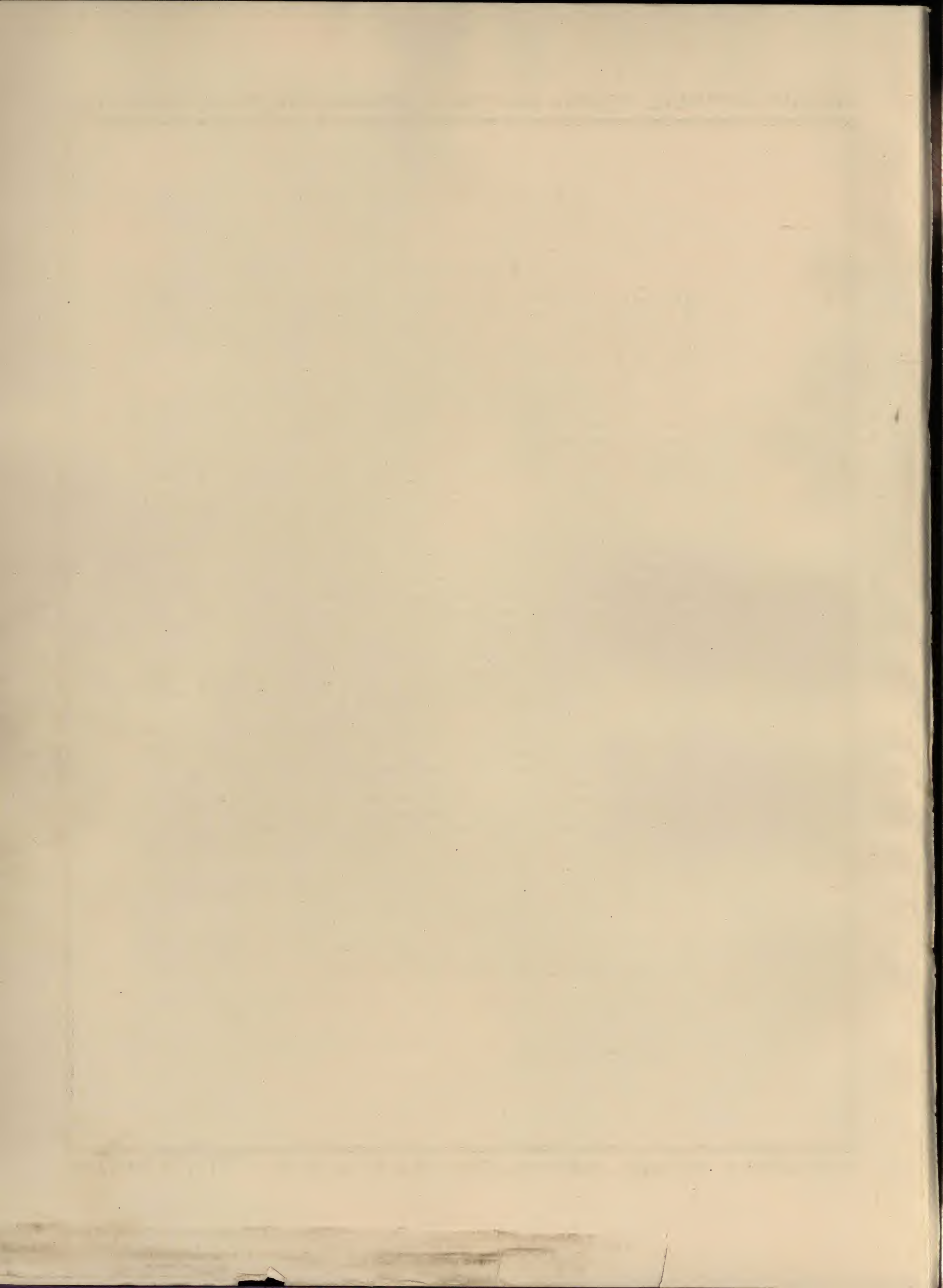
The purpose of this book, prepared through the co-operation of nearly all the manufacturers of Architectural Terra Cotta in the United States, is to facilitate the use of this material; to save time, trouble and expense to all concerned by disseminating accurate and dependable information on proper methods of jointing and construction. Nearly all of these methods have been in practical use for some years.

This work is in no sense intended to be a book of artistic aspirations. It does not presume to even suggest architectural design; it merely contains generally accepted architectural forms of assumed dimensions and their proper interpretation in Architectural Terra Cotta. For a number of the problems several good solutions are possible and the preference is sometimes governed by very slight modifications of profiles and dimensions. But attention is called particularly to the fact that considerable variations in sizes of similar sections may necessitate changes in both jointing and construction. Hence, none of the plates may exactly apply if the scale is reduced or increased.

The characteristics peculiar to Architectural Terra Cotta and the extreme difficulties encountered in the vagaries of clay before it is finally conquered and forever fixed by fire, can hardly be understood by those who have not been engaged in its manufacture. Therefore, harmonious co-operation between designers and manufacturers is imperative in order to produce the best results. Unfavorable shapes or dimensions, or arbitrary arrangement of engaging or supporting materials, may not only increase the cost of production and of erection, but may also produce unsatisfactory results, both aesthetically and constructively. But where the important rules of jointing and construction are observed, well made Architectural Terra Cotta is the ideal building material of the Twentieth Century.

This book is respectfully dedicated to our best friends—the Architects and the Architectural Engineers and their Assistants—with the sincere hope that they will endorse its value and express their appreciation of our efforts by receiving, treating and consulting it as a trustworthy friend of the office.







## Architectural Terra Cotta

*A brief synopsis of the manufacture of Architectural Terra Cotta in the sequence of the various operations*

- Drawings** The Architect's complete scale drawings are furnished the Manufacturer, who, following the design, makes jointing construction drawings and full size details to the proper shrinkage dimensions. These drawings are submitted to the Architect for approval before proceeding with the work.
- Decoration** From the Architect's drawings or sketches, in the style or period indicated, the ornamental clay models are made; this while the clay is in its most plastic and receptive state. Photographs of the ornamental models are submitted to Architect for approval or he may personally examine models at the factory—the soft clay permits any corrections or improvements which may subsequently be desired.
- Models—Moulds** Models are made of plaster of paris to shrinkage scale and to the dimensions required by the jointing drawings. Over these models sectional moulds of plaster of paris are cast, from which later the required number of Terra Cotta pieces are produced.
- Clay** The various clays and fusible minerals used in forming the Terra Cotta body are most carefully selected for their plasticity and binding qualities and must be of a nature which, when fired at high temperature, will form a homogeneous body amply strong to carry the required structural loads, and to resist the action of those elements which attack all exposed surfaces.
- Pressing** The foregoing processes are entirely preparatory to actual production, the first step of which is Pressing. This is entirely a hand operation and consists of pressing the plastic clay into the mould usually in a layer having a uniform thickness of about  $1\frac{1}{4}$  inch; following the contour of the mould, strengthening ribs of clay being inserted at intervals of approximately 6 inches. The mould is removed and the piece of Terra Cotta skillfully retouched and placed in specially constructed driers where the surplus moisture is evaporated.
- Color** After the drying process, the Terra Cotta passes into the slipping or spraying department where, by means of compressed air apparatus, the exposed surfaces are coated with the ceramic liquid mixture which, during the firing process following, develops into the desired color or glaze. These colors or glazes are prepared with scrupulous care, according to exact ceramic formulae. The variety of shades and textures which may be obtained opens up an unlimited field of permanent color design in architecture which has, as yet, been scarcely entered.
- Firing** After the color process, the Terra Cotta is placed in large kilns where it is subjected to a temperature rising gradually to 2000 degrees Fahrenheit or more, depending upon the point of maturity of the clay body or glaze; after this temperature is reached the kiln is slowly cooled to normal. The time required to charge, fire and discharge a kiln is about two weeks.
- Fitting** After firing, the Terra Cotta is removed to the fitting department, where it is laid out and marked according to the numbers on the jointing drawings and the place it is to occupy in the building. Where required, the joints are squared and cut to accurate alignment, either by hand or ground to size by the rubbing-bed process. Careful fitting is essential to insure satisfactory results in the erected Terra Cotta.
- Shipping** For rail transportation, Terra Cotta is usually shipped in bulk, securely packed in hay and braced to prevent shifting; when properly packed, damage in transit is negligible. For export by vessel it is usually necessary to pack in crates or hogsheads, according to the special conditions encountered. Upon arrival at the building site the hay should be removed and the Terra Cotta placed in the order marked, in piles on wooden strips.
- Erection** The appearance of Architectural Terra Cotta is greatly affected by inaccurate setting and poor pointing. As the individual pieces of Terra Cotta are fitted and numbered to correspond with the erection drawings, these numbers **MUST BE FOLLOWED**.
- Time** The Terra Cotta manufacturer will contract to submit jointing drawings for approval within a fixed time after receipt of Architect's drawings and the required information. All shipping dates are computed from the receipt by the manufacturer of these approved drawings. The process of manufacture takes from five to ten weeks, depending upon the size and nature of the order.
- Contract** A standard form of contract especially covering the manufacture of Architectural Terra Cotta has been adopted by the NATIONAL TERRA COTTA SOCIETY, and is recommended for general use.

*Architectural Terra Cotta factories are conveniently located in the Eastern, Central and Western sections of the United States (see list in back). Every Architect or Designer interested should visit one of these plants. He will always find a hearty welcome.*







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

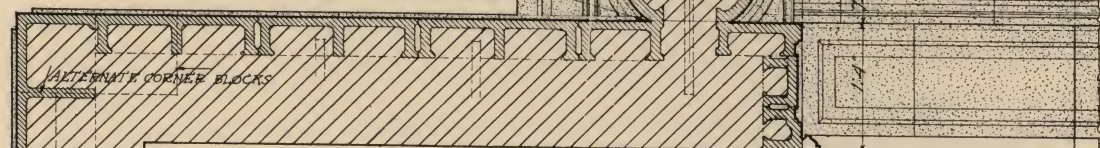
## ENTRANCE

WITH ENGAGED COLUMNS

WITH SEMI-CIRCULAR PEDIMENT

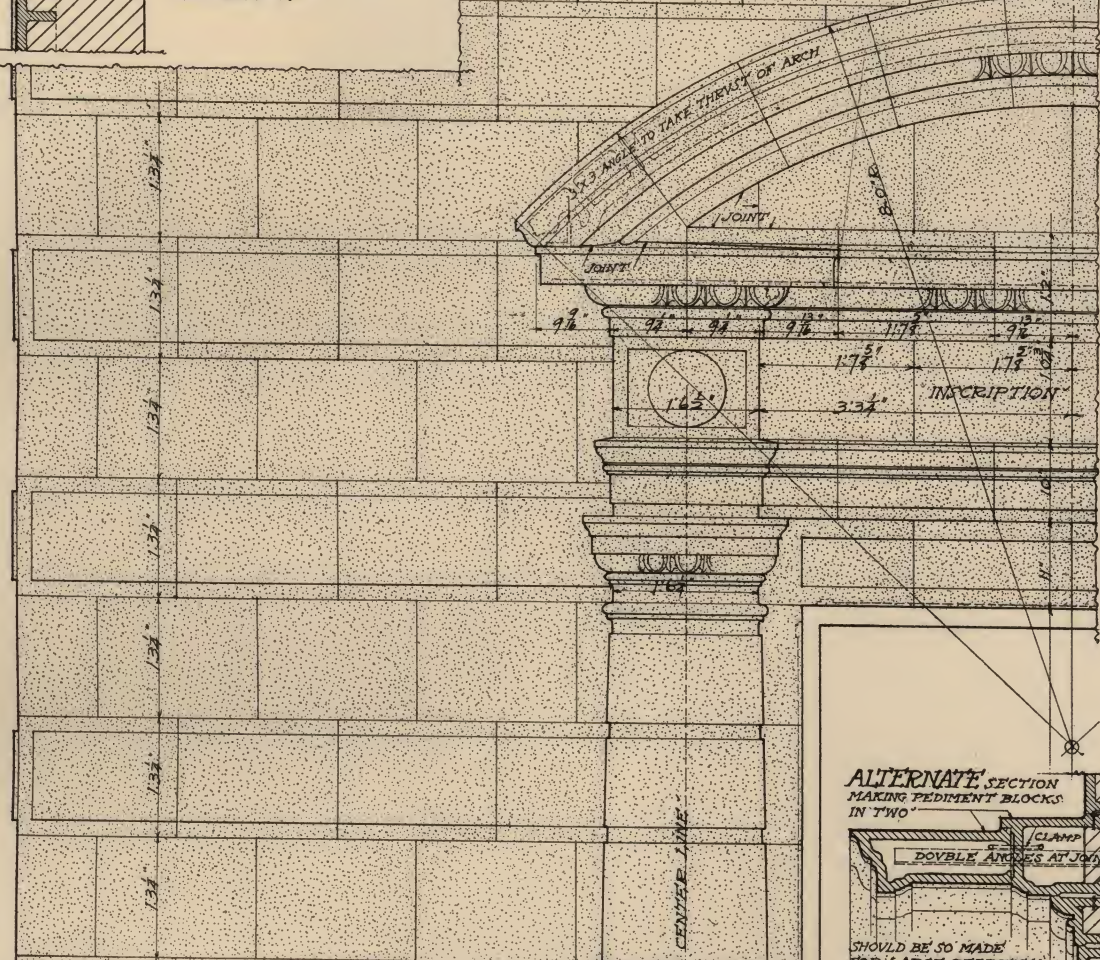
WITH RUSTICATED ASHLAR

ENGAGED COLUMNS SHOULD BE JOINTED AT WALL AT POINT OF ENGAGEMENT TO PREVENT UNEQUAL SHRINKAGE AND TO ALLOW ADJUSTMENT IN ALIGNMENT



### PLAN

THRO' NECK OF COLUMNS  
LOOKING UP

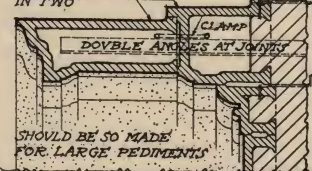


### ELEVATION

RUSTICATION ON COLUMNS TENDS TO CONCEAL HORIZONTAL JOINTS AND PERMITS OF LARGER DEVS WITHOUT VERTICAL JOINTS

SCALE ONE-HALF INCH EQUALS ONE FOOT

### ALTERNATE SECTION

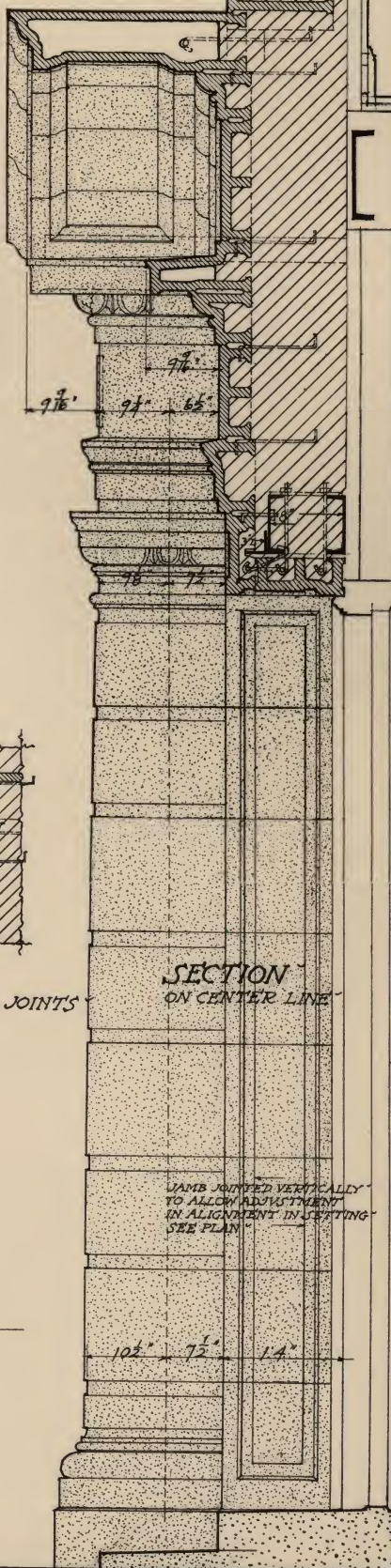


SHOULD BE SO MADE FOR LARGE PEDIMENTS

### SECTION

ON CENTER LINE

JAMB JOINTED VERTICALLY TO ALLOW ADJUSTMENT IN ALIGNMENT IN SETTING SEE PLAN









The architectural drawing consists of three main views of a classical entrance design:

- ELEVATION OF ENTRANCE AND PILASTER**: This view shows the front facade of the entrance. It features a central rectangular opening flanked by pilasters with decorative capitals. Above the opening is a semi-circular archway containing a circular medallion or oculus. The entire composition is set against a background of a grid pattern representing stone masonry.
- SECTION THRO' ENTRANCE**: This vertical cross-section view illustrates the structural details of the entrance. It shows the profile of the arch, the depth of the door frame, and the internal construction of the wall and floor. Hatching is used to differentiate materials like masonry and wood.
- PLAN THRO' JAMB TRIM AND PILASTER**: This horizontal section view shows the top-down perspective of the entrance components. It details the width of the door jamb, the trim, and the base of the pilaster. A note indicates: "WHERE PRACTICABLE FACE JOINTS SHOULD BE CONCEALED BY BACK JOINTING AS AT B-B-B".

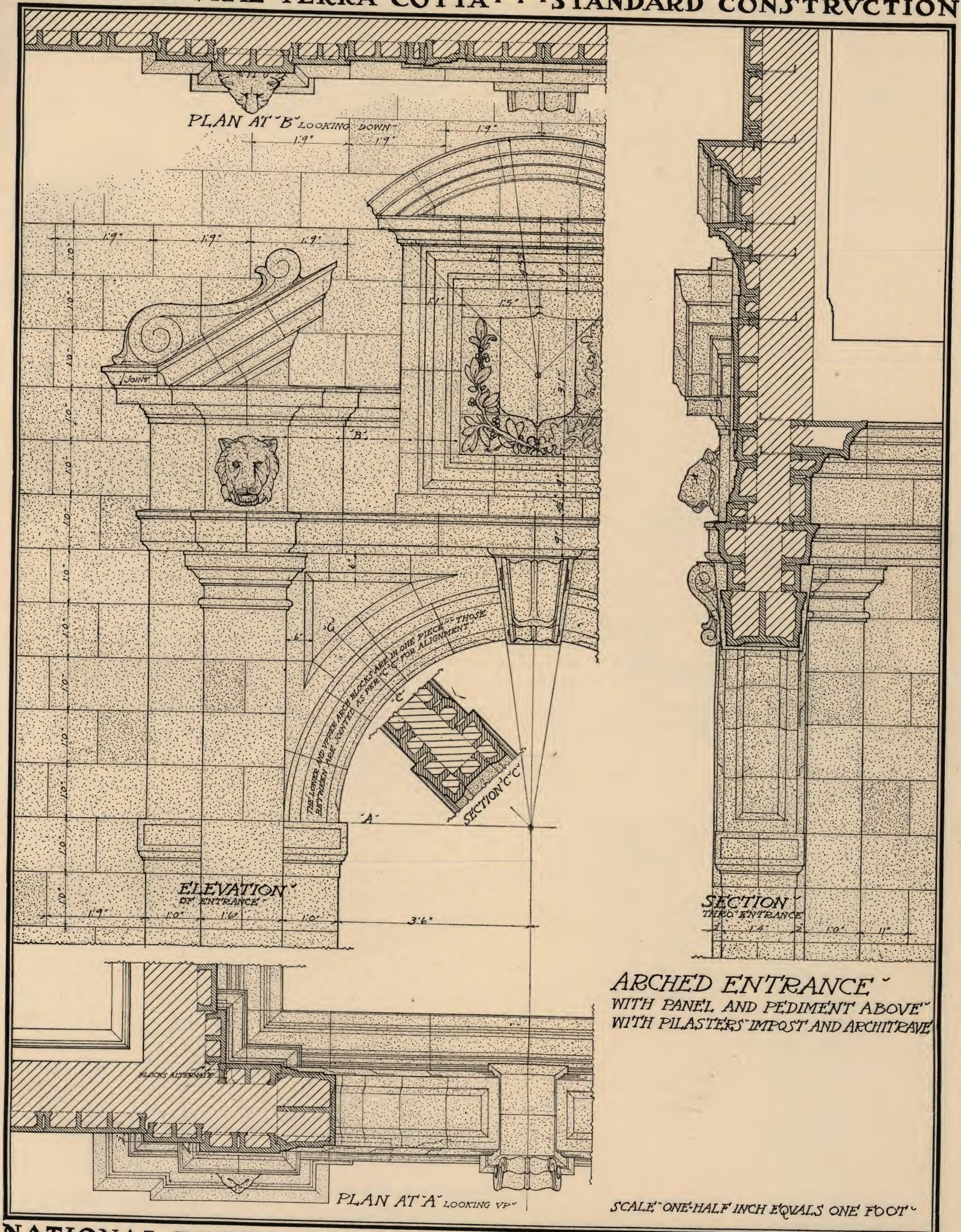
Additional annotations include dimensions such as "15'-0\"/>







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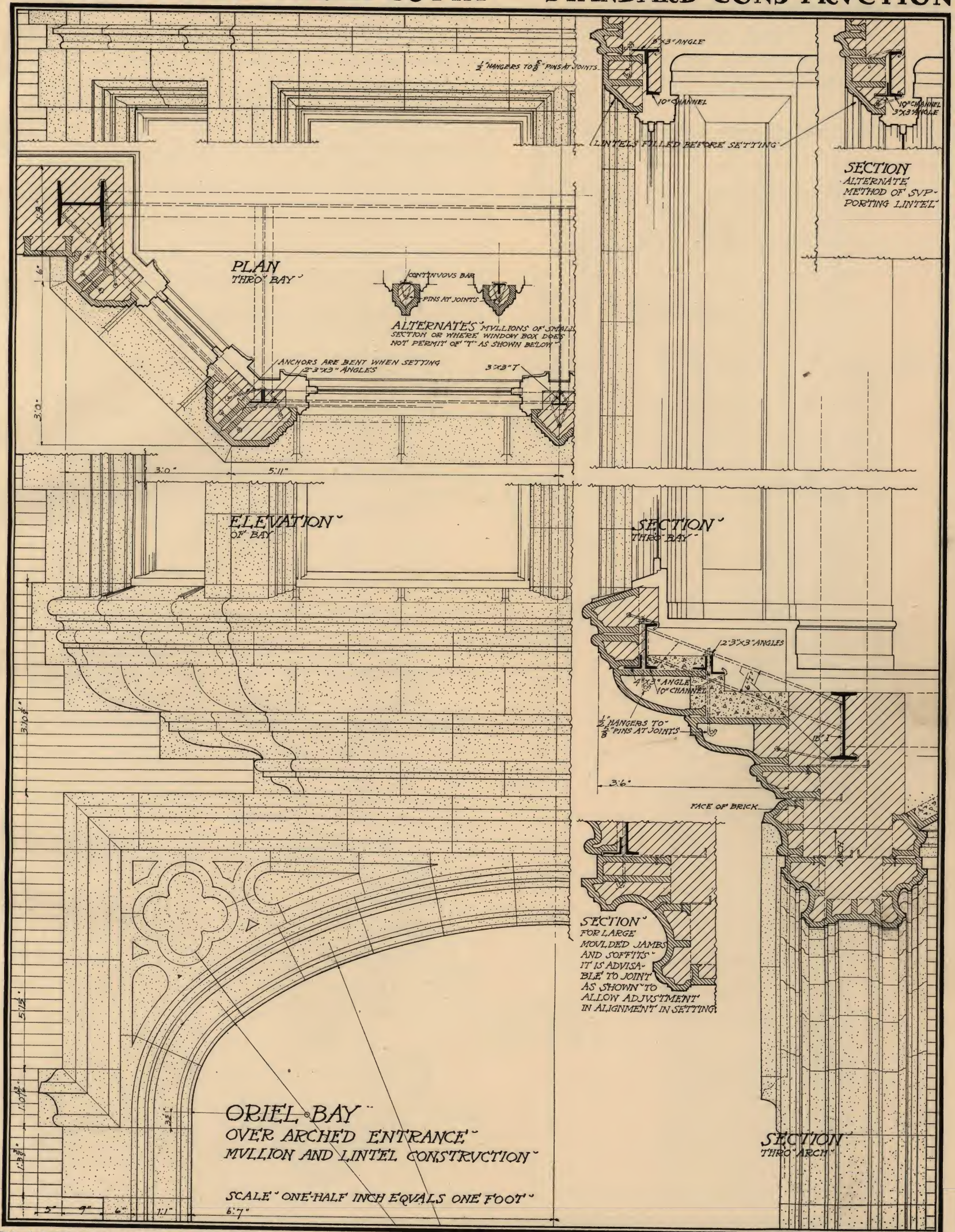




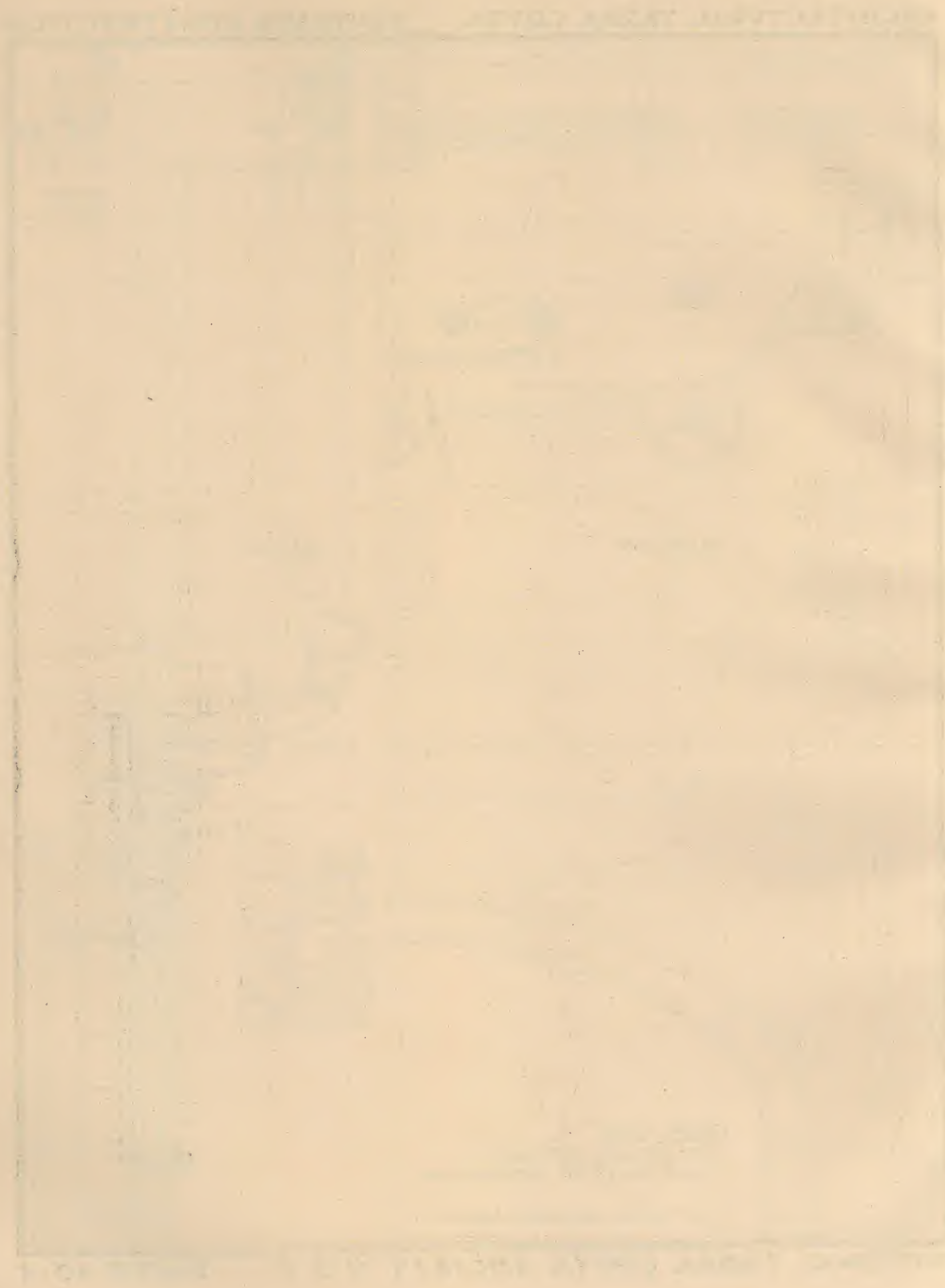




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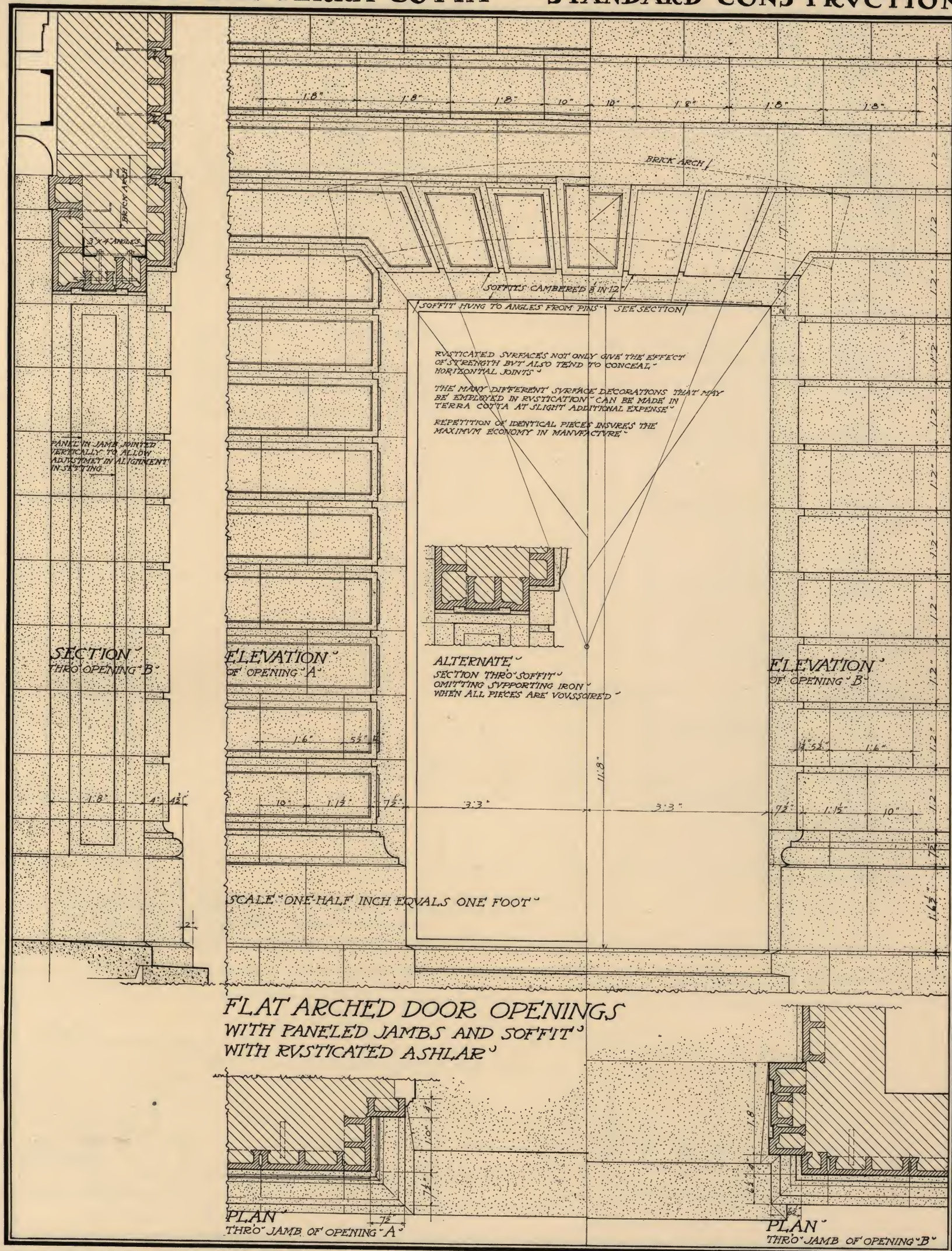
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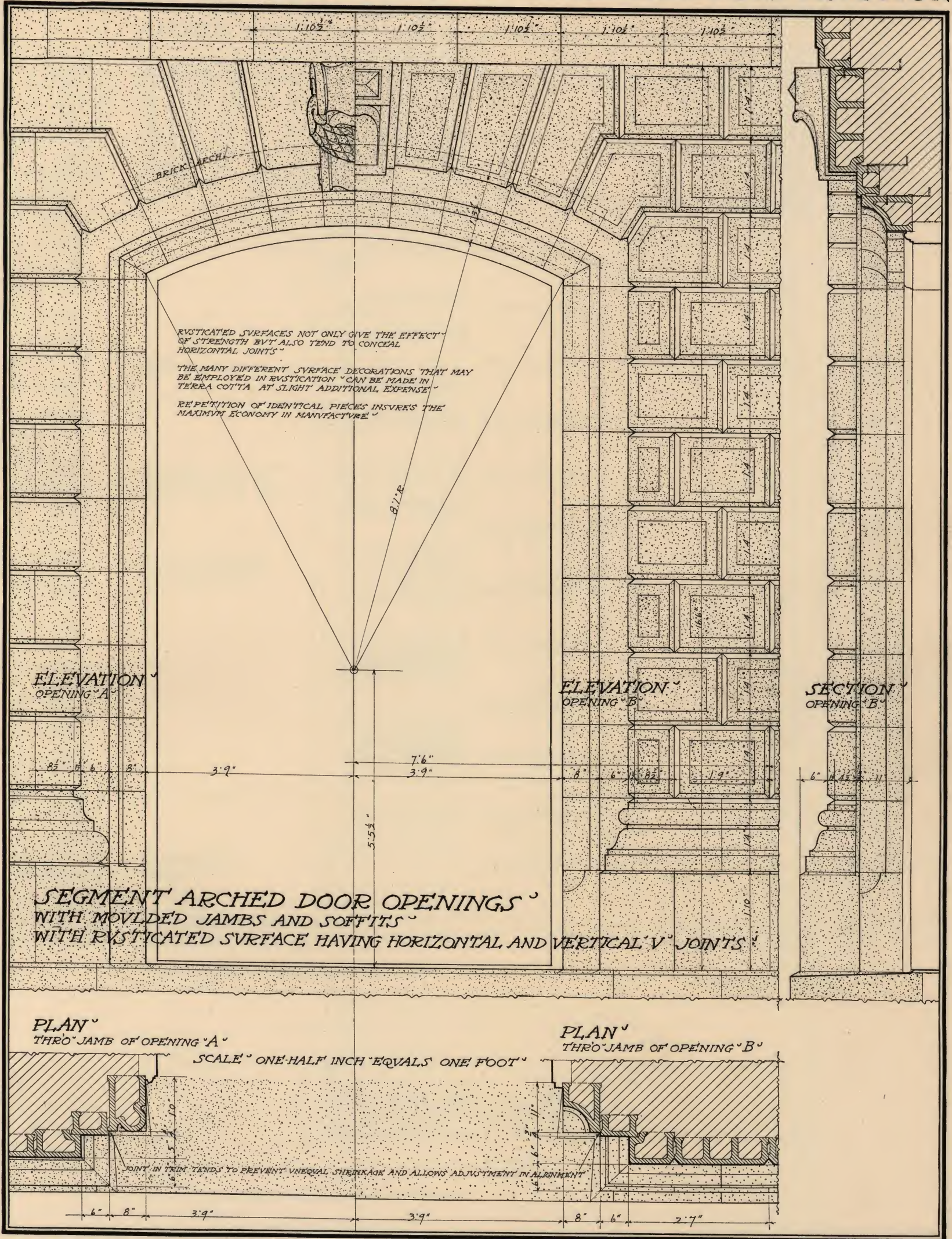




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# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









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THE NATIONAL TERRA COTTA SOCIETY

PLATE 25-B



ARCHED DOOR OPENINGS  
WITH RUSTICATED ASHLAR  
WITH TRANSOM LINTELS  
SHOWING JAMB AND LINTEL CONSTRUCTION  
MOULDED IMPOST AND ARCHITRAVE  
WITH CARTOUCHE

THE SURFACE OF RUSTICATION  
MAY BE EITHER TOOLED OR STIPPLED

BACK ARCH

3.0

2' 2 1/2" ANGLES

NOTE SUPPORT AND ANCHORAGE OF TRANSOM LINTELS

2' 3" X 3" ANGLES  
2' 2 1/2" X 2 1/2" ANGLES

ALTERNATE  
LINTEL CONSTRUCTION

PANELED JAMB JOINTED  
VERTICALLY TO ALLOW  
ADJUSTMENT IN ALIGNMENT  
IN SETTING

PLAN  
THRO' JAMB OF OPENING "A"

SECTION  
OPENING "A"

ELEVATION  
OPENING "A"

SCALE - ONE-HALF INCH = EQUALS ONE FOOT

3.0

11.3

1.45

6

3.0

5.42

1.105

6

PLAN  
THRO' JAMB OF OPENING "B"

ELEVATION  
OPENING "B"

SECTION  
OPENING "B"

CARTOUCHE  
AND KEY

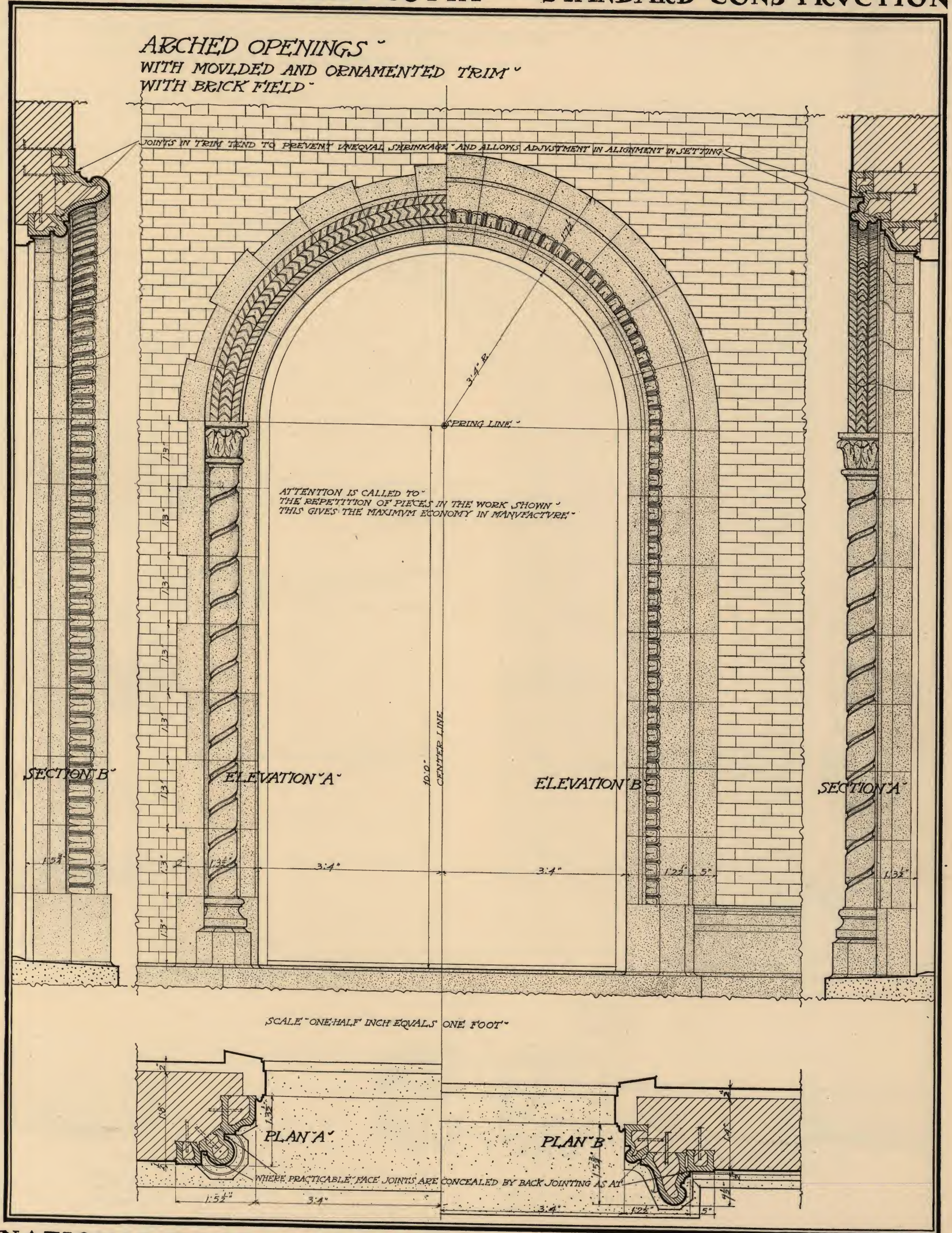
BACK ARCH







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









# ARCHED OPENINGS AND TICKET WINDOW WITH MOVLDED AND ORNAMENTED TRIM

**ELEVATION OPENING "A"**

**ELEVATION OPENING "B" AND TICKET WINDOW**

**SECTION THRO' TICKET WINDOW**

**PLAN THRO' JAMB OPENING "A"**

**PLAN THRO' JAMB AND TICKET WINDOW OPENING "B"**

**SCALE ONE-HALF INCH EQUALS ONE FOOT**

**SUGGESTED COLOR SCHEME**

FIELD "WHITE"  
TRIM "CREAM"  
PANELS "WHITE"  
ROSETTES "ORANGE"

**SUGGESTED COLOR SCHEME**

FIELD "CREAM"  
TRIM "WHITE"  
ORNAMENT "Moss Green"  
BACKGROUND "BLUE"  
ROSETTES "CREAM"

LIGHT COLORED GLAZED TERRA COTTA IS PARTICULARLY ADAPTED FOR INTERIORS OF THIS CHARACTER. REFLECTS A MAXIMUM AMOUNT OF LIGHT. HAS A FIXED UNCHANGING COLOR. REQUIRES LITTLE EFFORT TO KEEP IN PERFECT SANITARY CONDITION.

THE ROSETTES ARE MADE SEPARATE TO AVOID JOINTING THRO' CENTER

12" 3" X 2" ANGLES

BAGGAGE REST

GLASS

ALTERNATE JOINTING OF JAMB





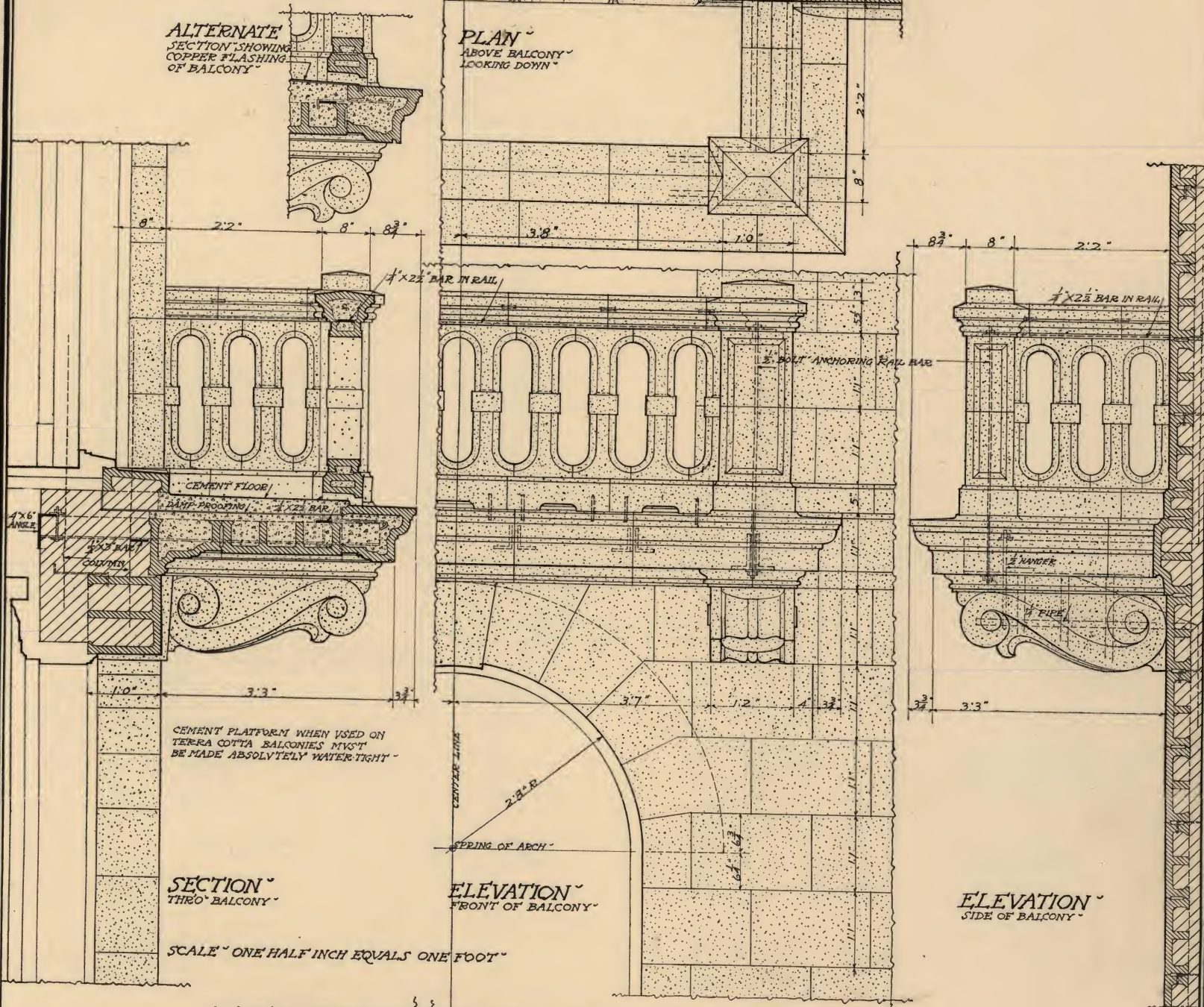


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

BALCONY CONSTRUCTION  
WITH CONCRETE PLATFORM  
WITH ARCHED OPENING BELOW AND  
WINDOW ABOVE

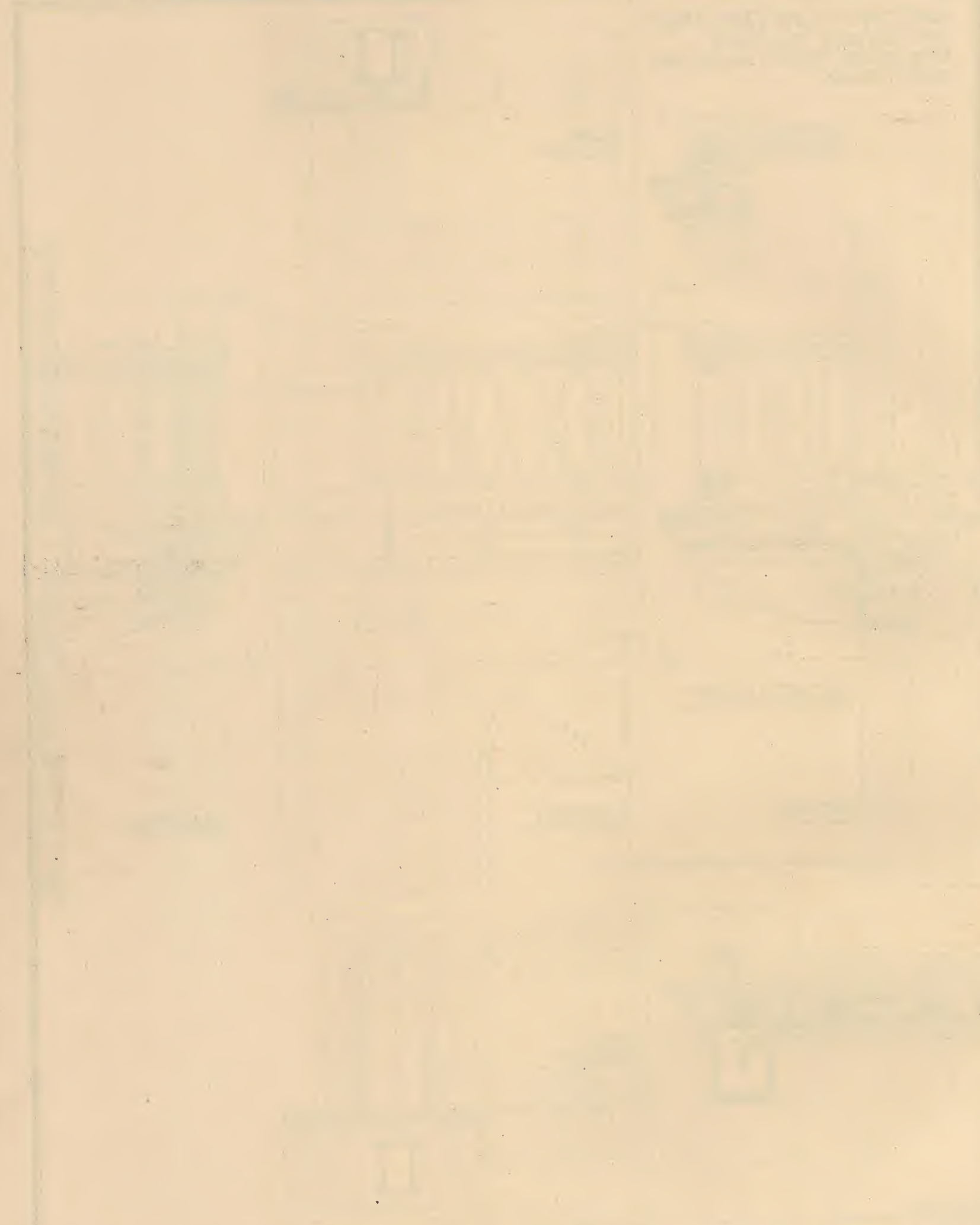
ALTERNATE  
SECTION SHOWING  
COPPER FLASHING  
OF BALCONY

PLAN  
ABOVE BALCONY  
LOOKING DOWN





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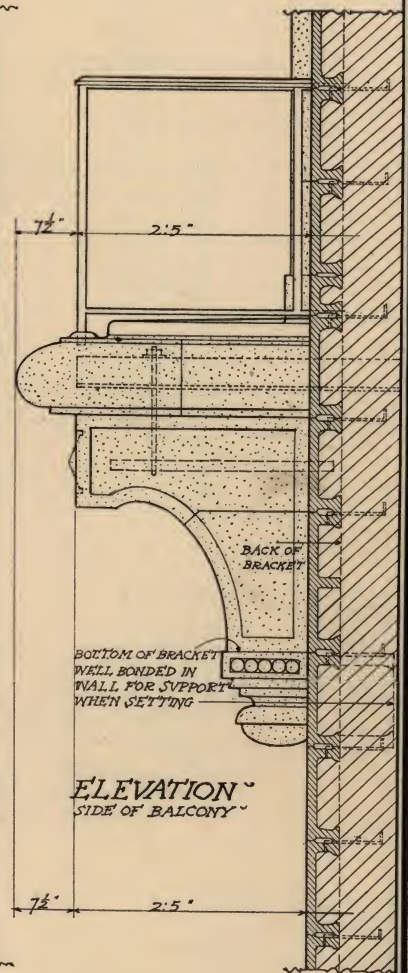
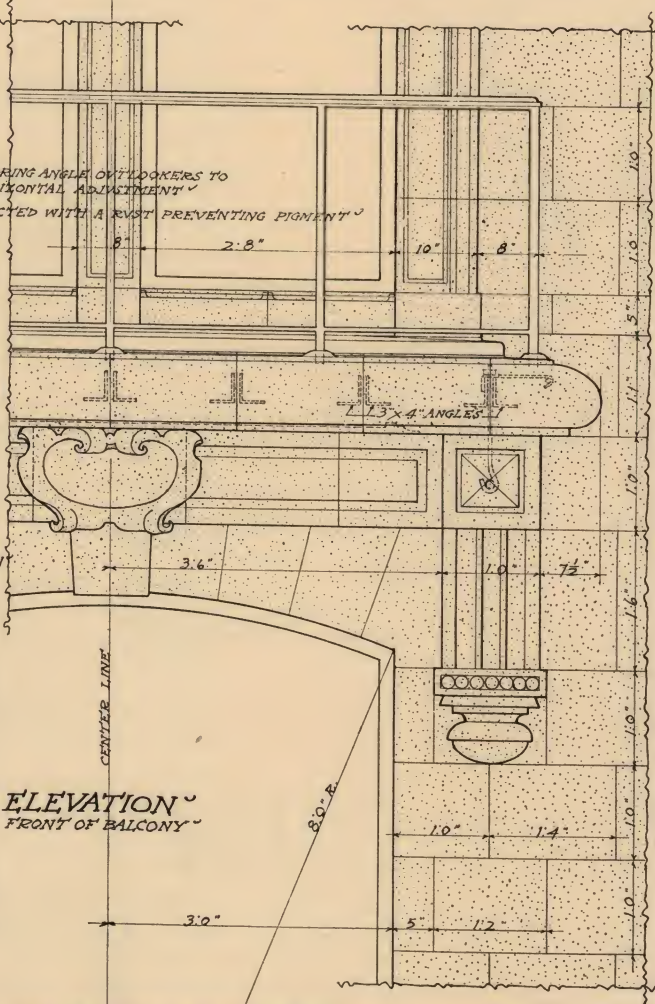
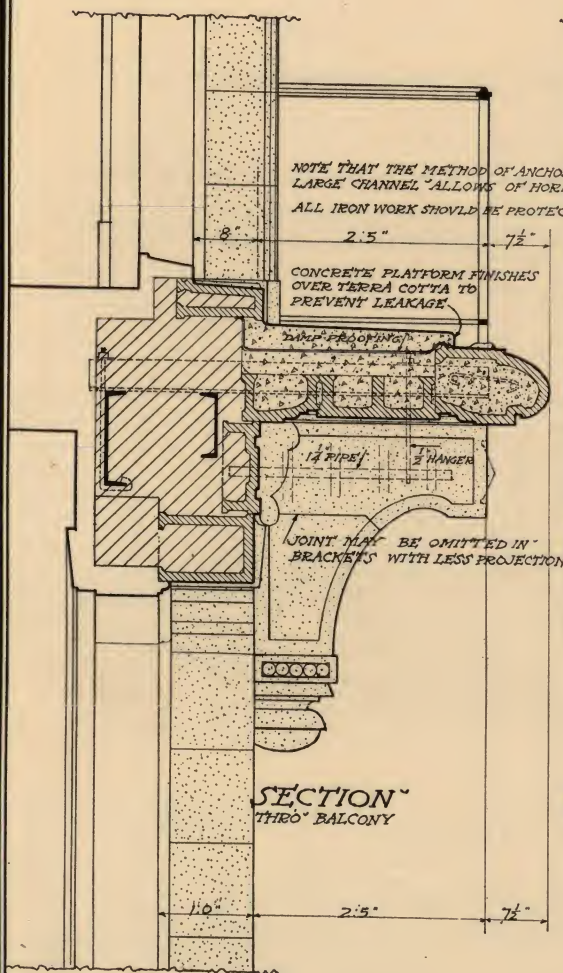
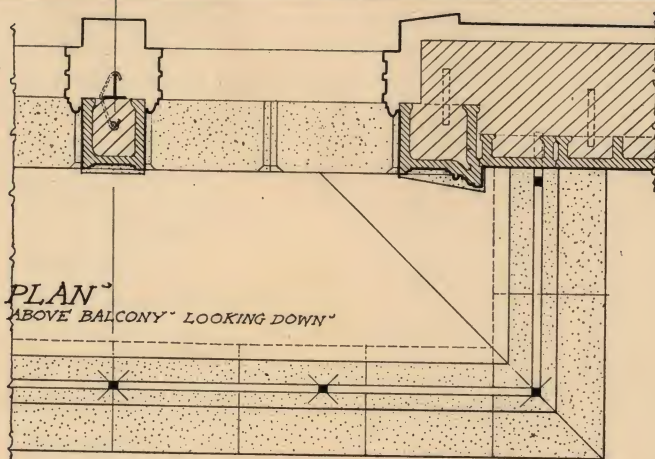


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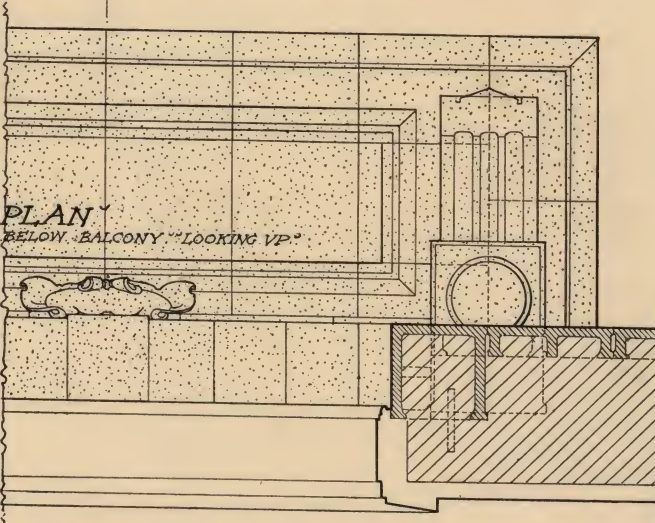


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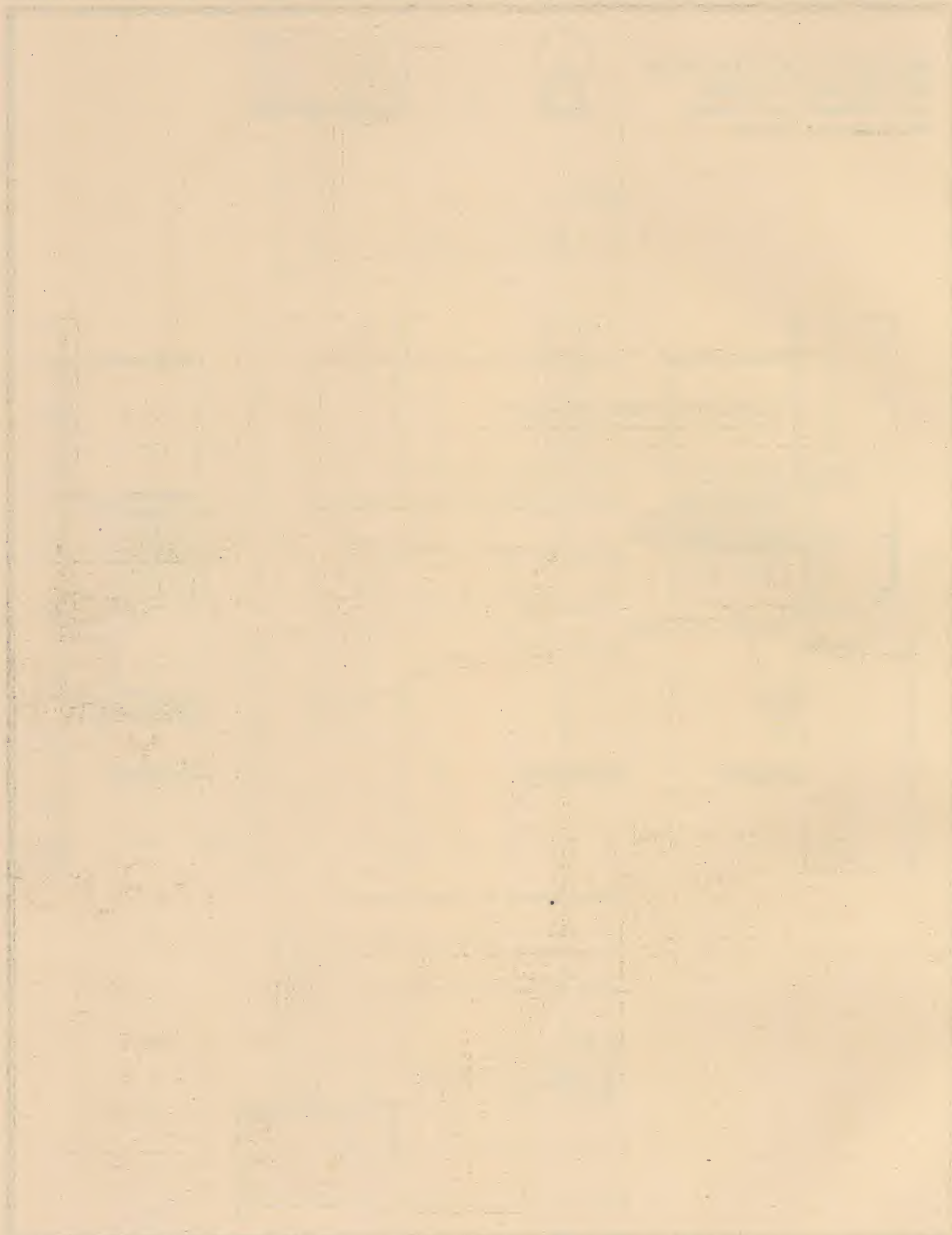
## BALCONY CONSTRUCTION WITH CONCRETE PLATFORM WITH SEGMENT ARCH UNDER AND WINDOWS ABOVE



SCALE ONE-HALF INCH EQUALS ONE FOOT









# BALCONY CONSTRUCTION

## THREE EXAMPLES

### SHOWING SUPPORT AND ANCHORAGE

SCALE THREE-EIGHTHS OF AN INCH EQUALS ONE FOOT

SMALL RAILS MAY BE SECURED BY CONTINUOUS PIPE OR ROD ANCHORED AT ENDS

BALUSTERS SHOULD BE SOLIDLY GROTTED WITH CEMENT WHERE THIS IS IMPRACTICABLE THE JOINTS SHOULD BE JO-BEDDED IN CEMENT AS TO PREVENT LEAKAGE AND POSSIBLE DAMAGE FROM FROSTS

The image contains three sets of architectural drawings for balconies, labeled A, B, and C. Each set includes a Plan, Elevation, and Section view, with detailed dimensions and construction notes.

- Example A:** Includes a Plan of Balcony A, Elevation of Balcony A, and Section Thro Balcony A. The elevation shows a decorative balcony with a central arch and side panels. The section shows the structural support and anchorage.
- Example B:** Includes a Plan of Balcony B, Elevation of Balcony B, and Section Thro Balcony B. The elevation shows a balcony with a central arch and side panels. The section shows the structural support and anchorage.
- Example C:** Includes a Plan of Balcony C, Elevation of Balcony C, and Section Thro Balcony C. The elevation shows a balcony with a central arch and side panels. The section shows the structural support and anchorage.

Dimensions are given in feet and inches, with some measurements in feet and eighths of an inch. The scale is three-eighths of an inch equals one foot.

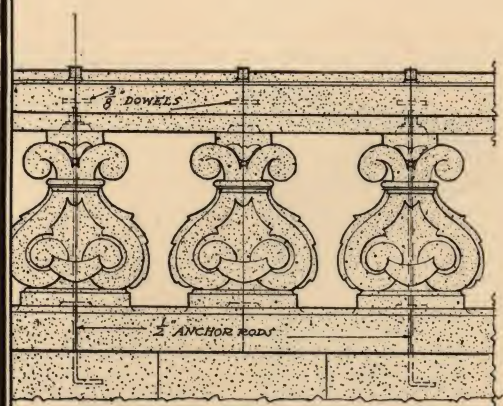


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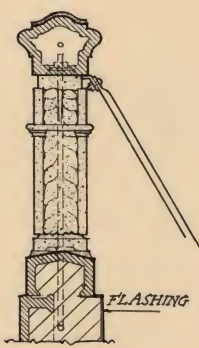


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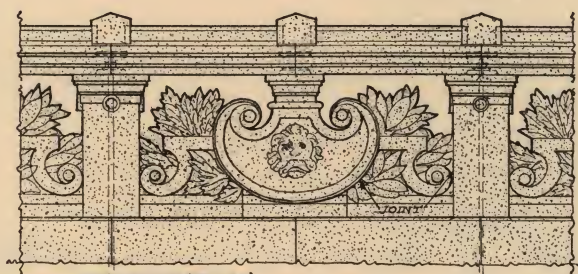
## BALUSTRADES SHOWING VARIOUS TYPES OF FILLING



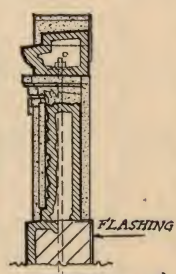
ELEVATION  
OF BALUSTRADE "A"



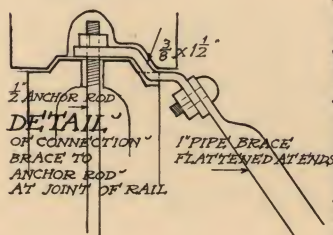
SECTION  
THRO' "A"



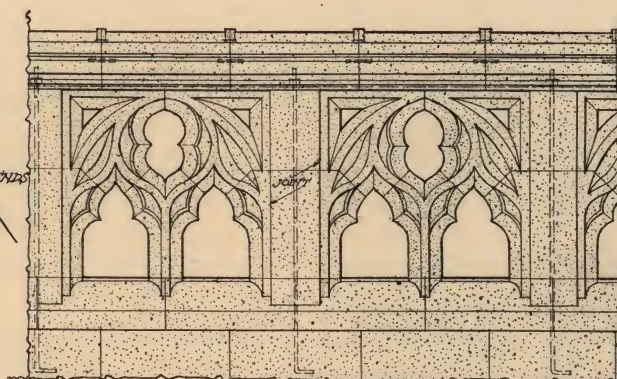
ELEVATION  
OF BALUSTRADE "D"



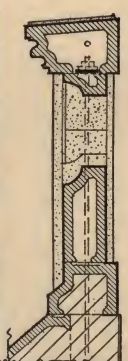
SECTION  
THRO' "D"



DETAIL  
OF CONNECTION  
BRACE TO  
ANCHOR ROD  
AT JOINT OF RAIL

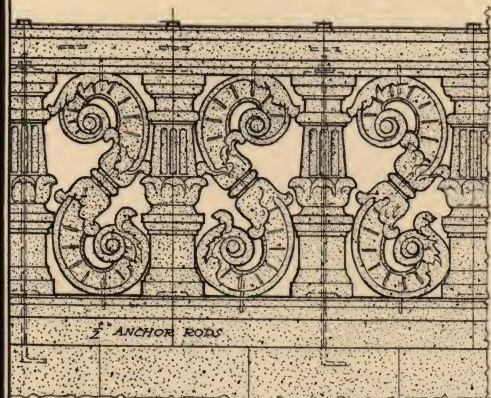


ELEVATION  
OF BALUSTRADE "E"

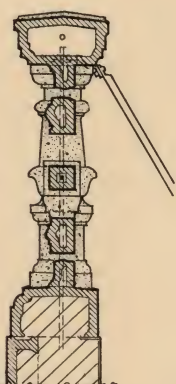


SECTION  
THRO' "E"

SCALE "ONE-HALF" INCH EQUALS ONE FOOT

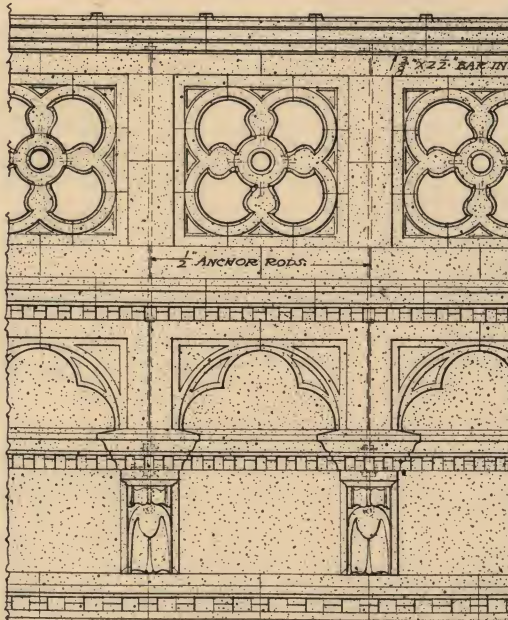


ELEVATION  
OF BALUSTRADE "B"

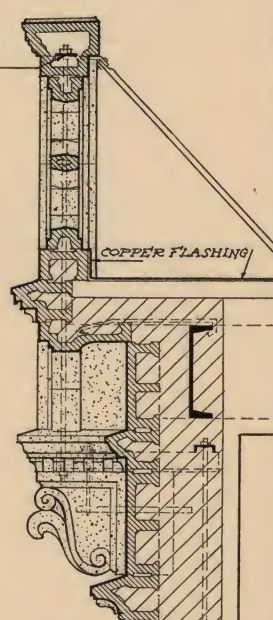


SECTION  
THRO' "B"

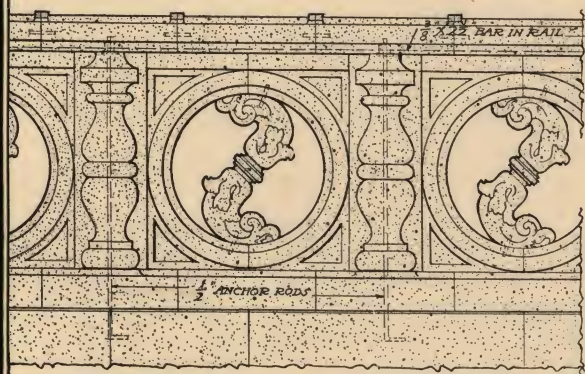
LIGHT AND HIGH BALUSTRADES WHERE NOT ANCHORED WITH PIERS AT SHORT INTERVALS SHOULD BE BRACED AS SHOWN



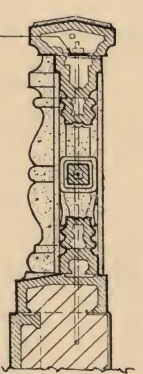
ELEVATION  
CORNER AND BALUSTRADE "F"



SECTION  
THRO' "F"

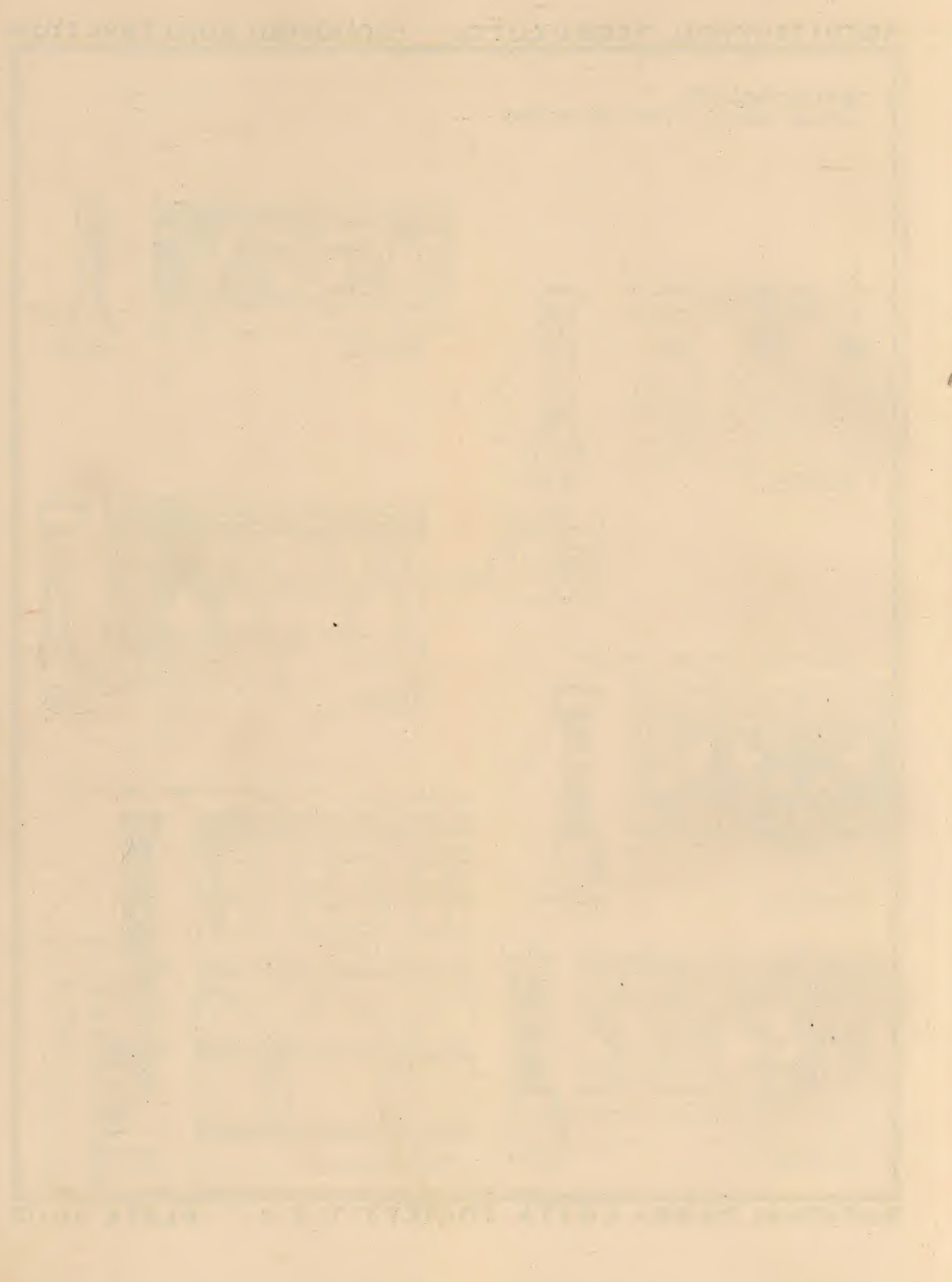


ELEVATION  
OF BALUSTRADE "C"



SECTION  
THRO' "C"



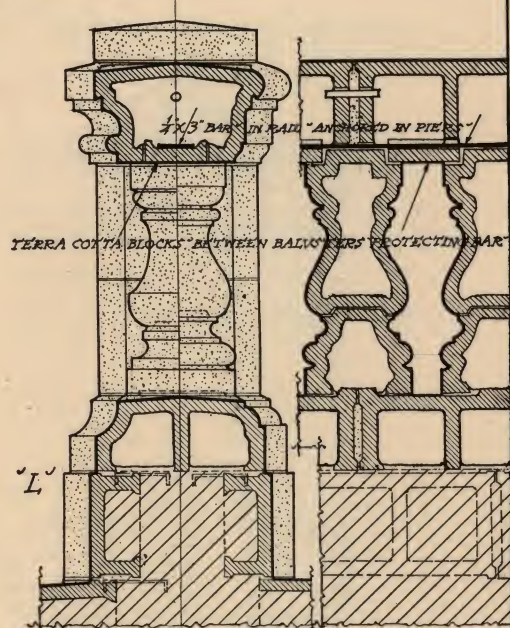
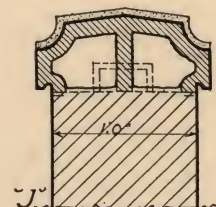
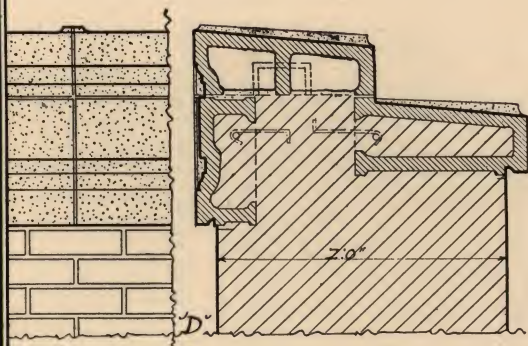
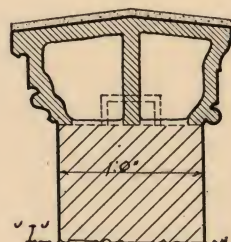
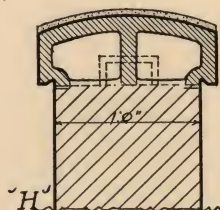
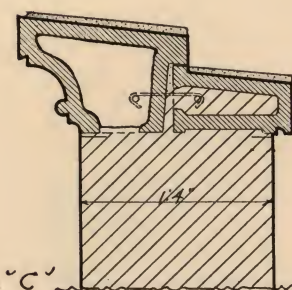
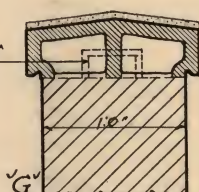
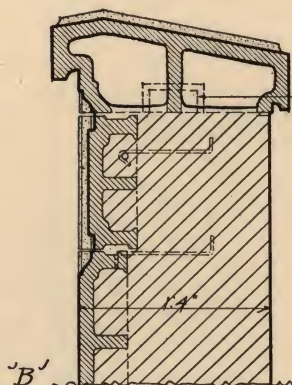
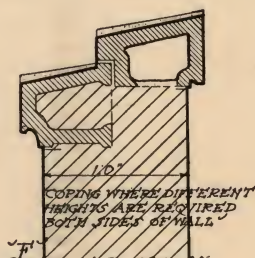
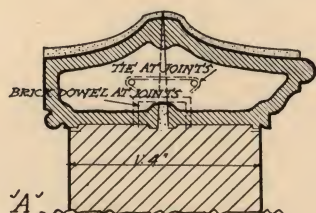




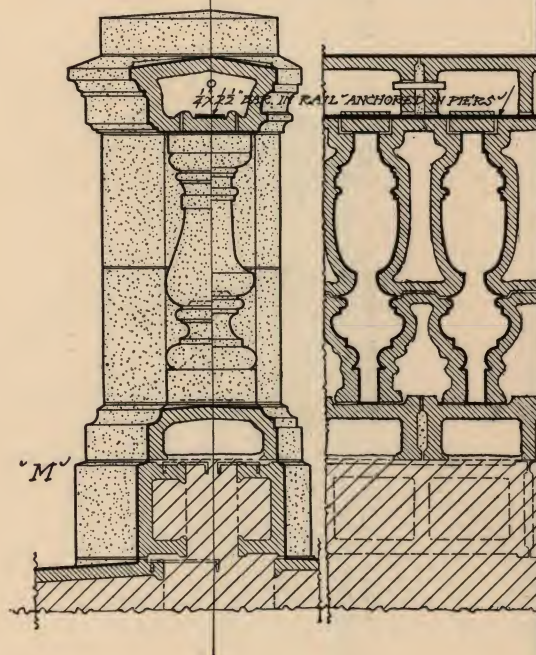
# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## WALL COPINGS AND BALUSTRADES

SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING

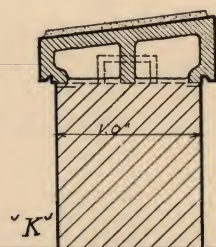
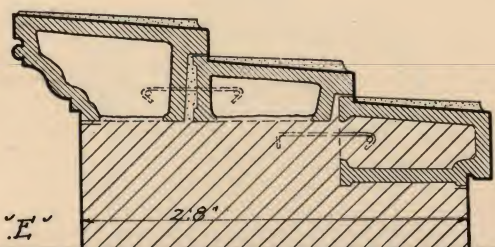


WHERE BALUSTERS ARE OF SUFFICIENT DIAMETER DOWELS AS SHOWN SHOULD BE PROVIDED IRON ANCHOR RODS BEING UNNECESSARY WHERE OTHERWISE PROVIDE RODS AS ON PLATES NO 25 AND 26



COPINGS FOR WALLS UP TO 20" IN THICKNESS MAY BE SAFELY MADE IN ONE PIECE FOR WALLS 20" TO 36" IN THICKNESS IN TWO PIECES AND FOR WALLS ABOVE 36" IN THICKNESS IN THREE OR MORE PIECES AS REQUIRED

SCALE THREE-QUARTERS OF AN INCH EQUALS ONE FOOT



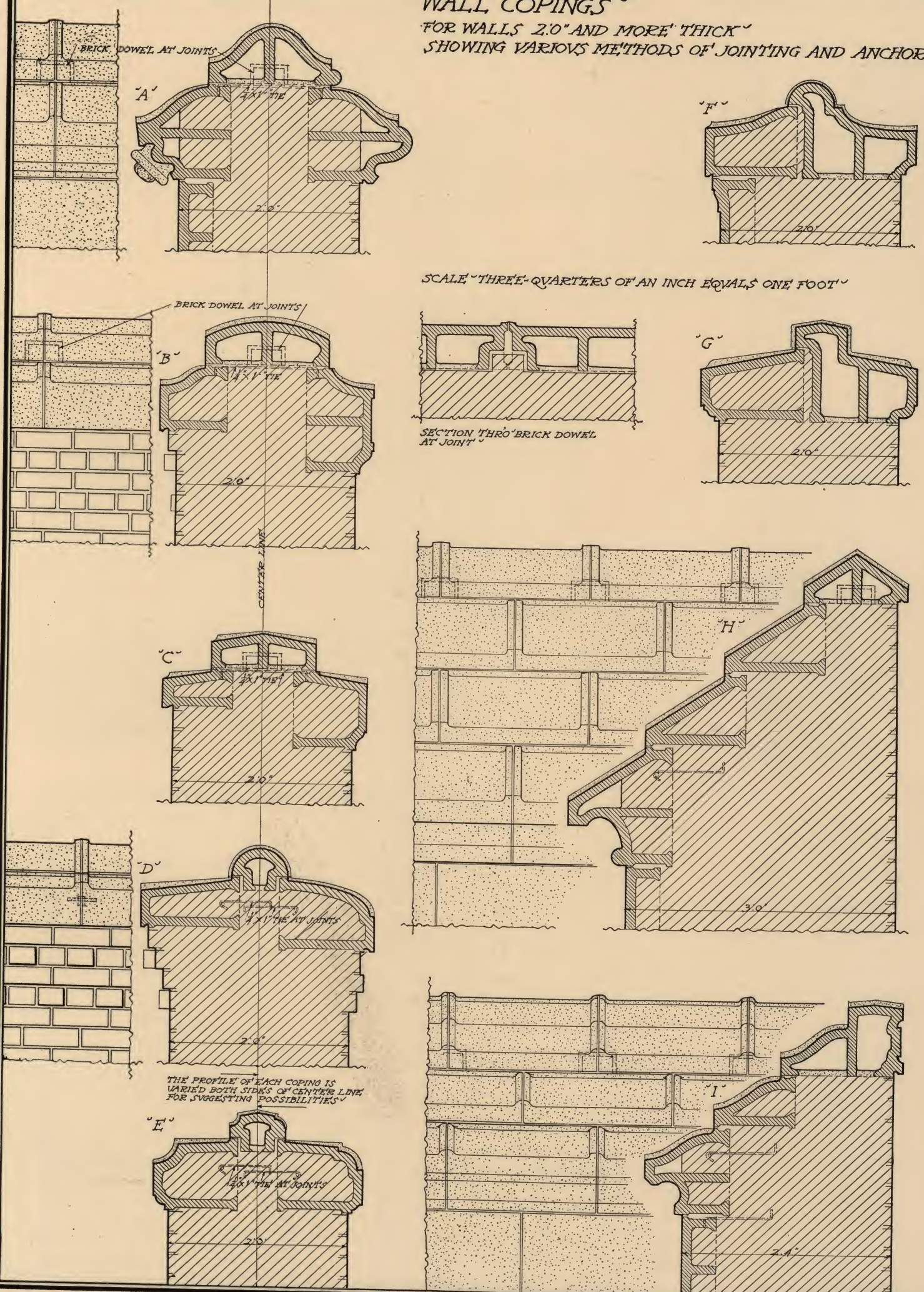






# ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

WALL COPINGS ~  
 FOR WALLS 2.0" AND MORE THICK ~  
 SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING ~



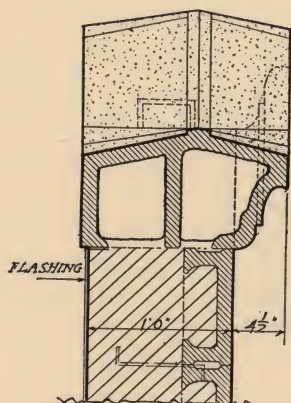




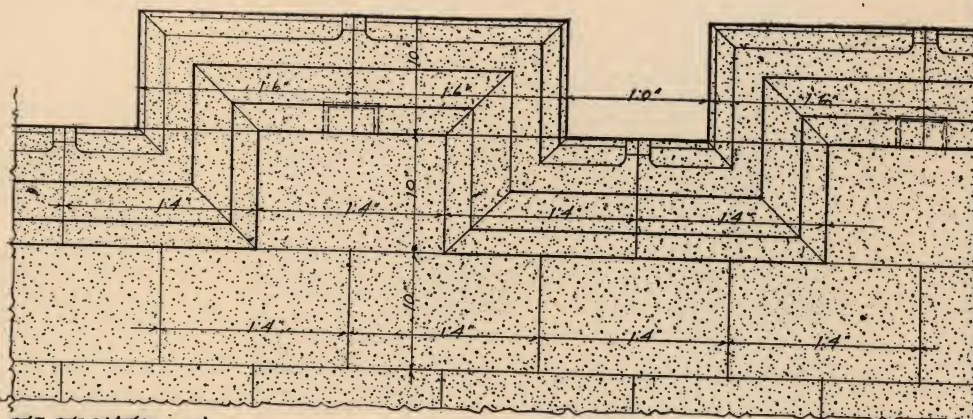


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

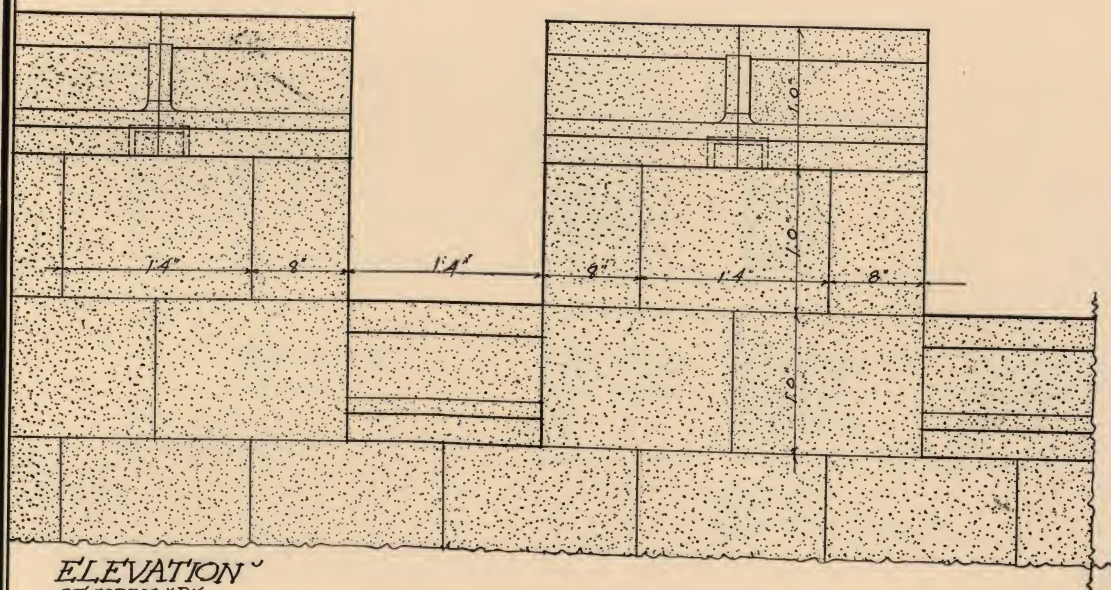
## BUTTRESS AND BATTLEMENTED COPING



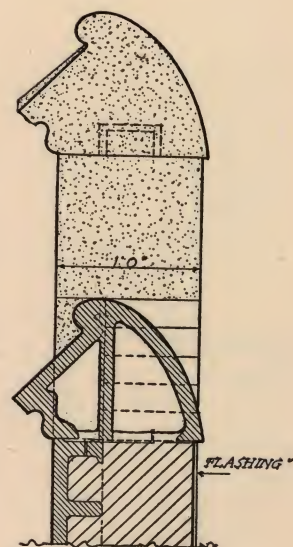
SECTION  
THRO' COPING "A"



ELEVATION  
OF COPING "A"

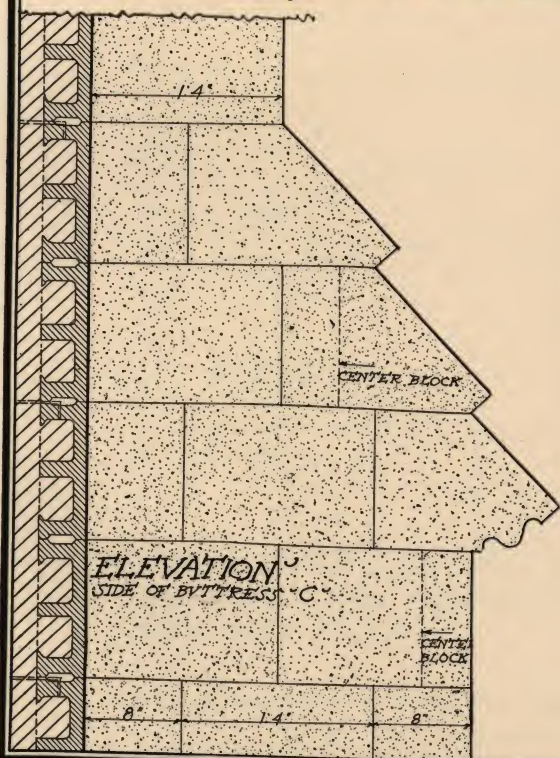


ELEVATION  
OF COPING "B"

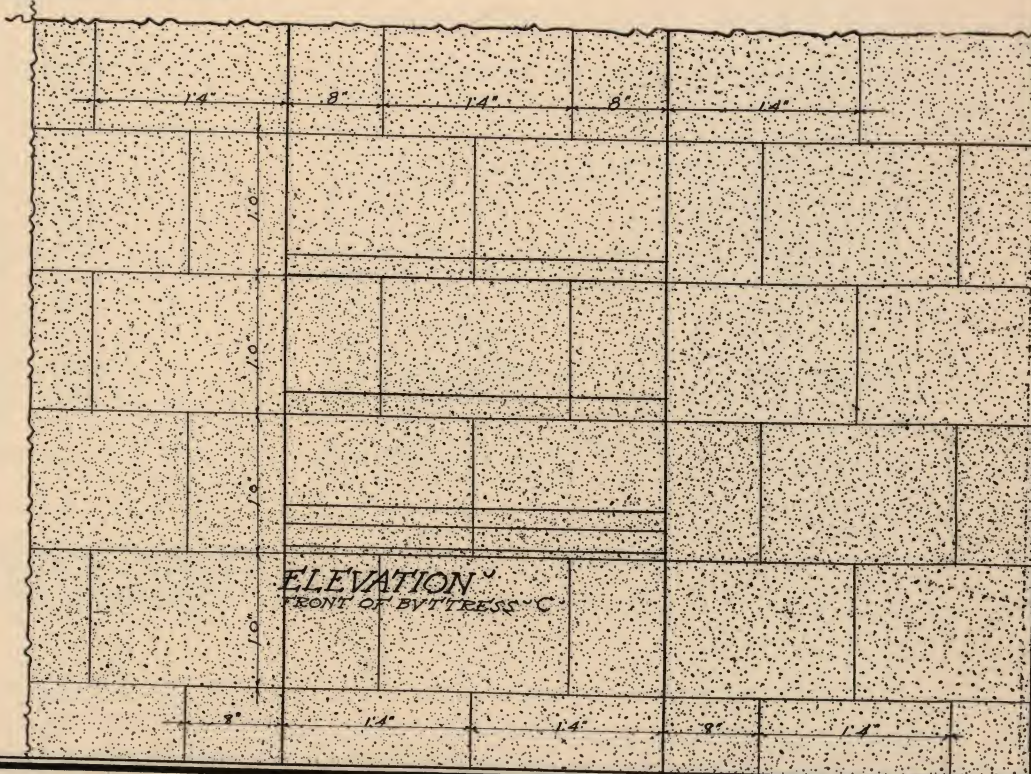


SECTION  
THRO' COPING "B"

SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT



ELEVATION  
SIDE OF BUTTRESS "C"



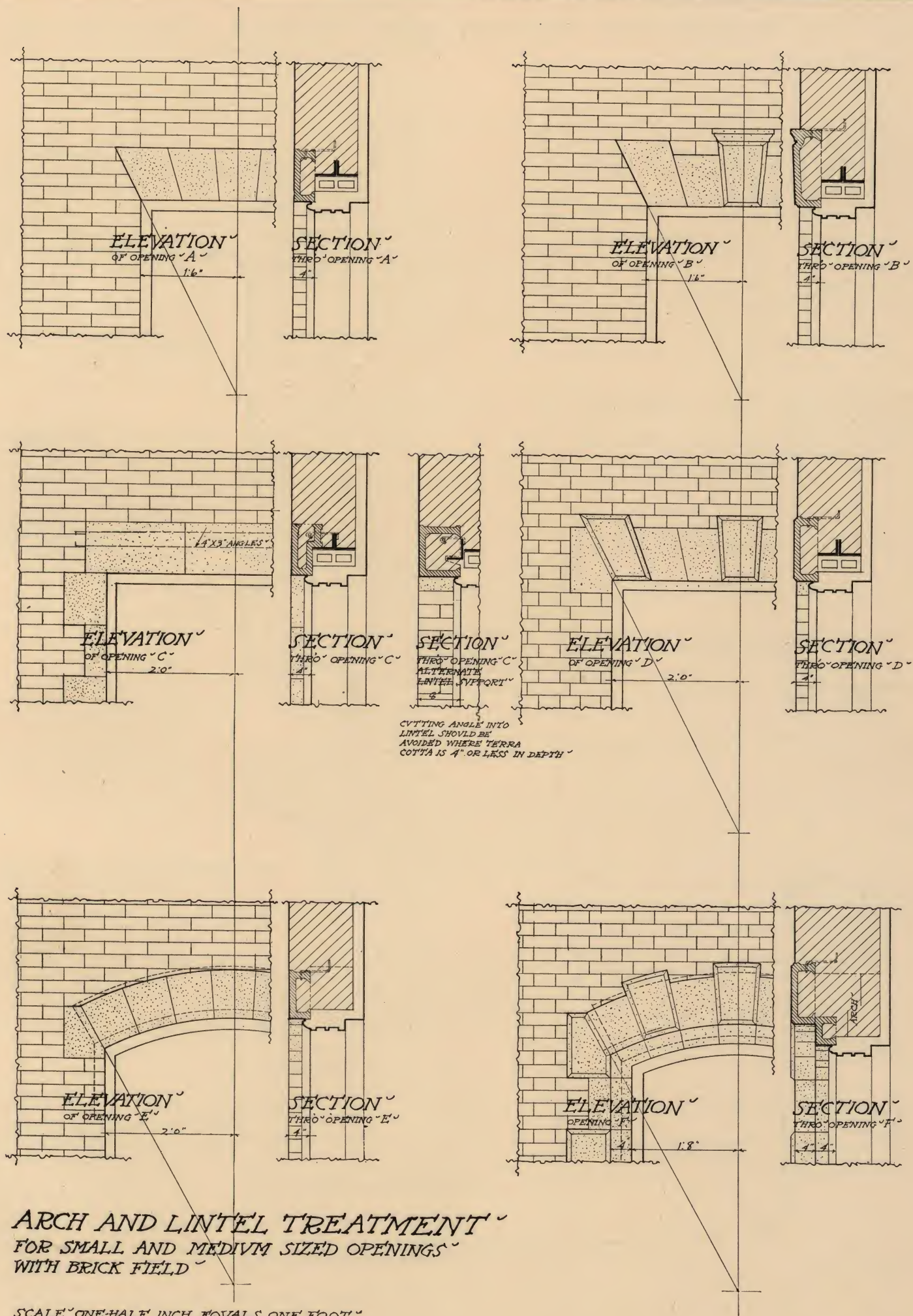
ELEVATION  
FRONT OF BUTTRESS "C"



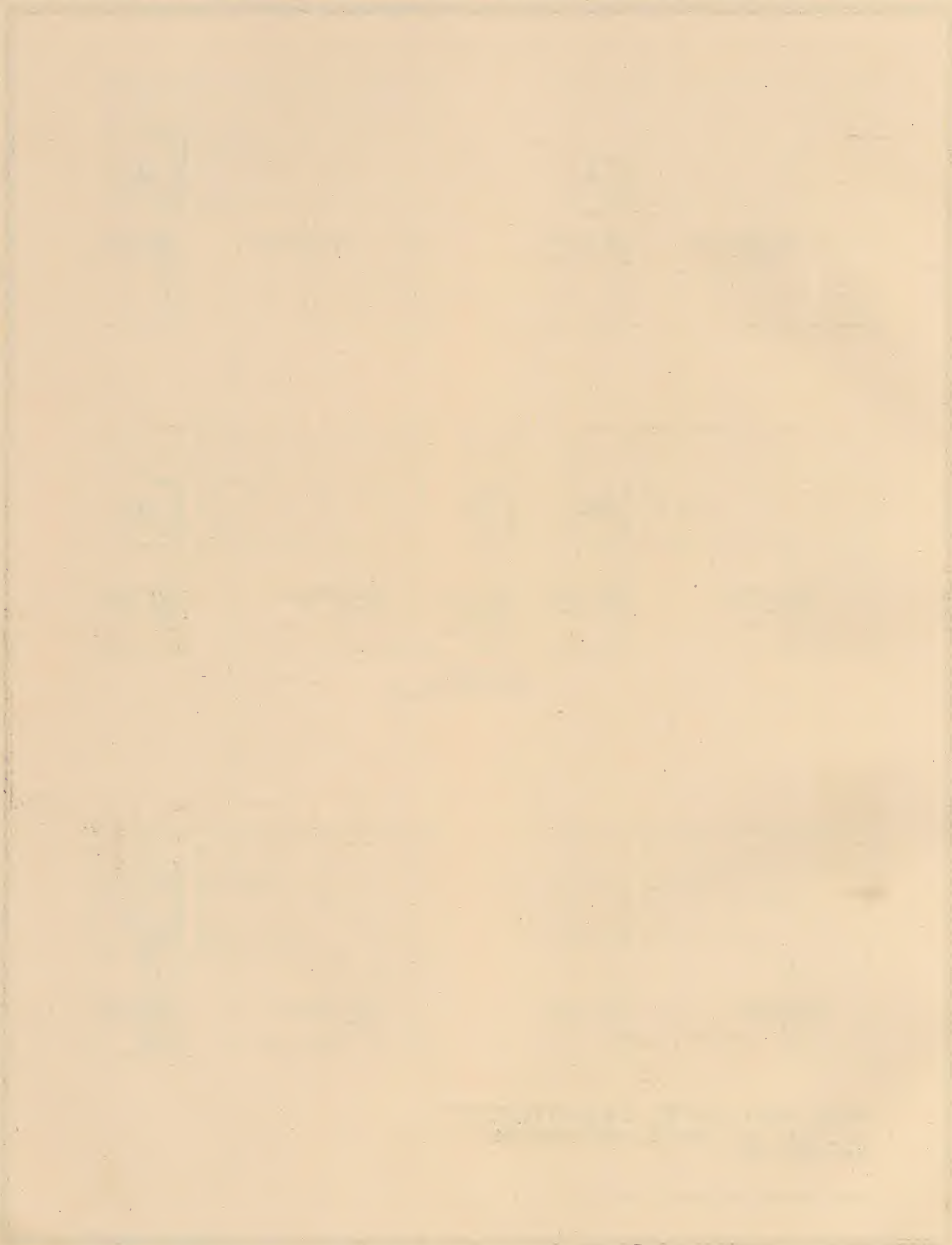




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









# ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

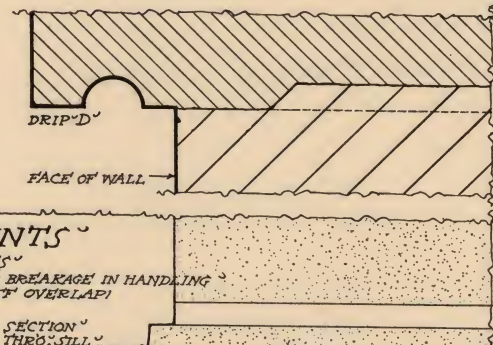
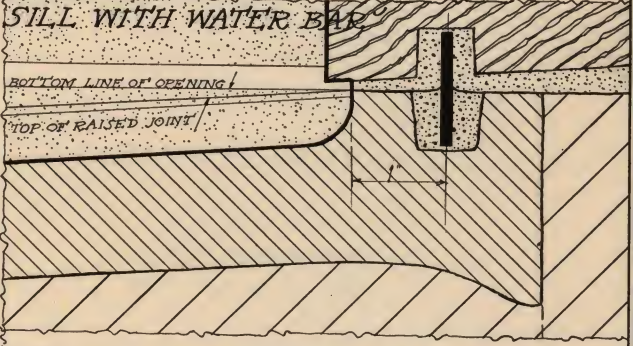
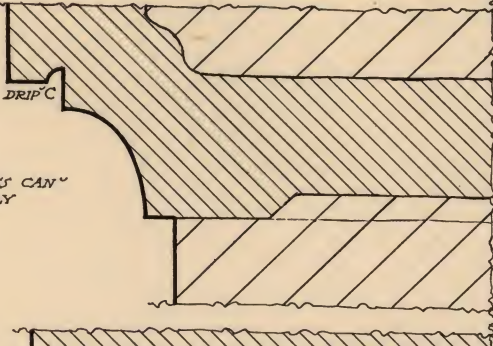
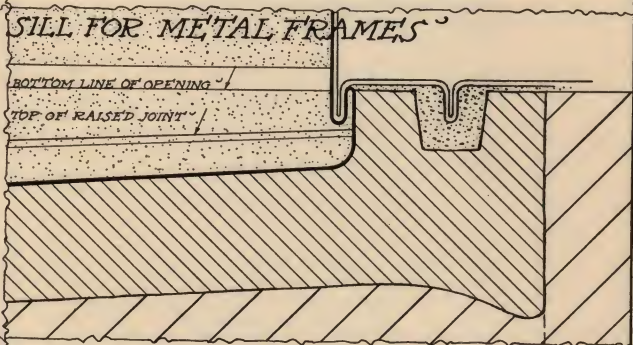
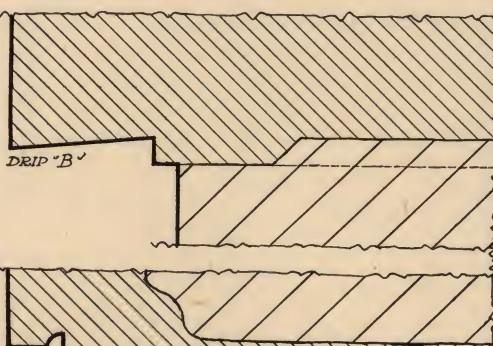
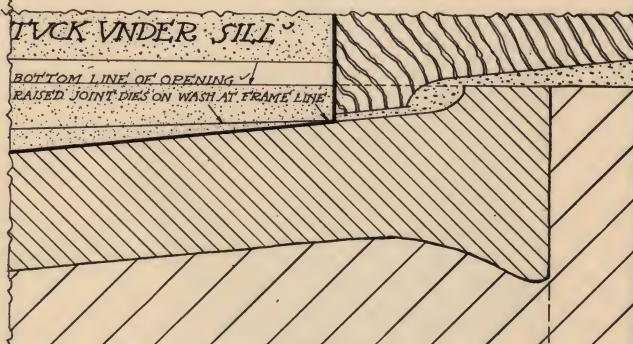
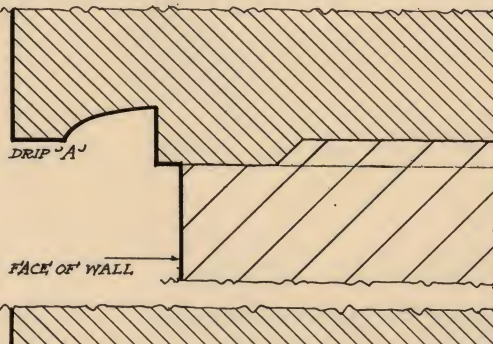
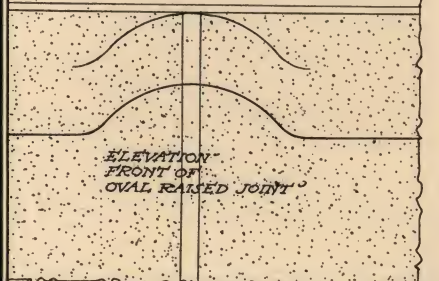
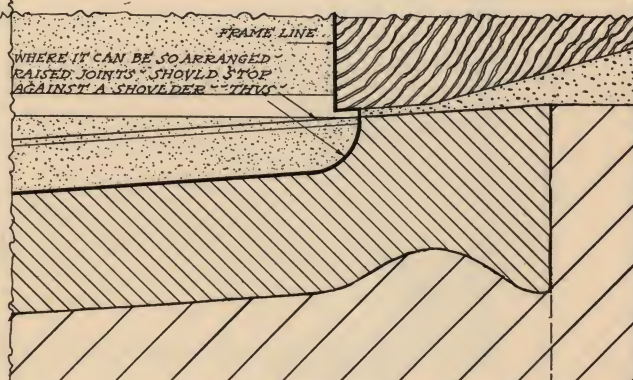
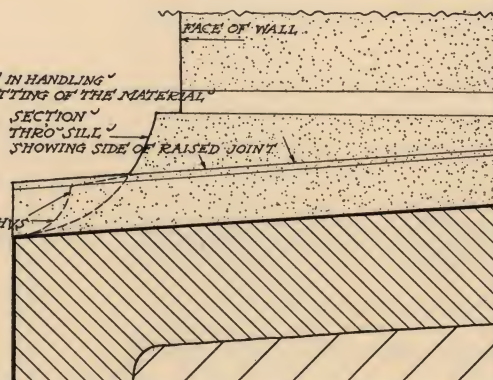
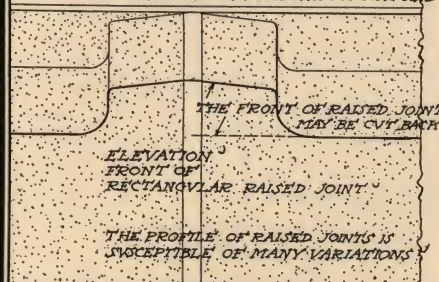
## PROTECTED JOINTS . SILL WASHES . AND DRIPS .

TERRA COTTA LENDS ITSELF TO GREAT VARIETY IN FORM AND PROFILE . . .  
OFTEN WITHOUT ADDING TO THE COST . . .

SCALE . HALF FULL SIZE .

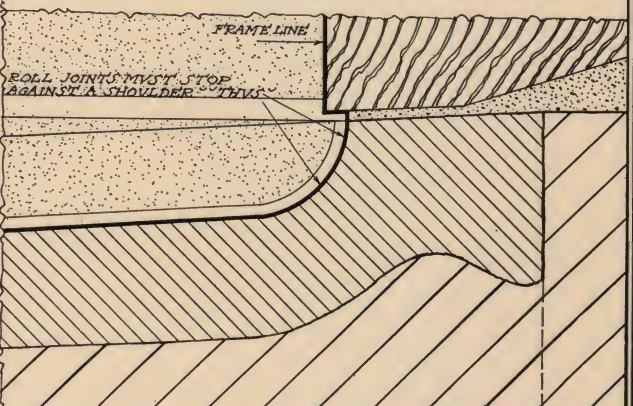
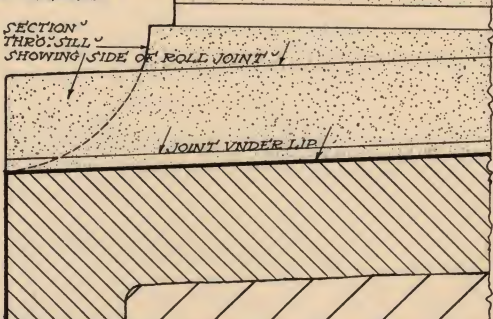
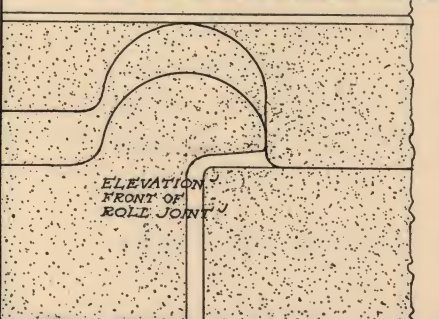
### RAISED JOINTS .

ARE MUCH SUPERIOR TO ROLL JOINTS .  
MUCH LESS LIABLE TO CHIPPING AND BREAKAGE IN HANDLING .  
FACILITATES THE PROPER FITTING AND SETTING OF THE MATERIAL .



### OLD STYLE ROLL JOINTS .

ARE MUCH INFERIOR TO RAISED JOINTS .  
ARE VERY SUSCEPTIBLE TO CHIPPING AND BREAKAGE IN HANDLING .  
ANY SETTLEMENT IS LIABLE TO BREAK OFF OVERLAP .



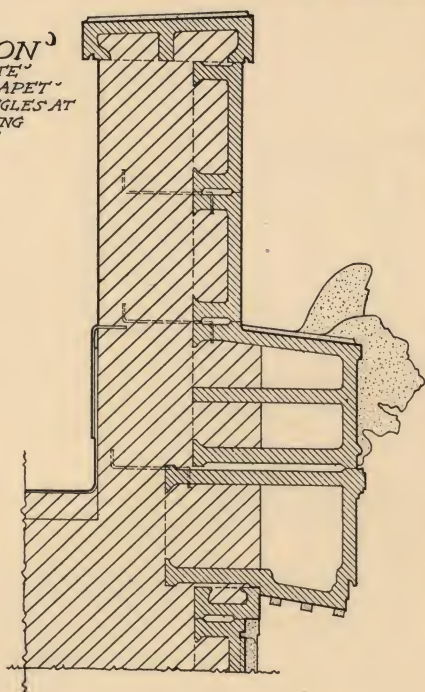




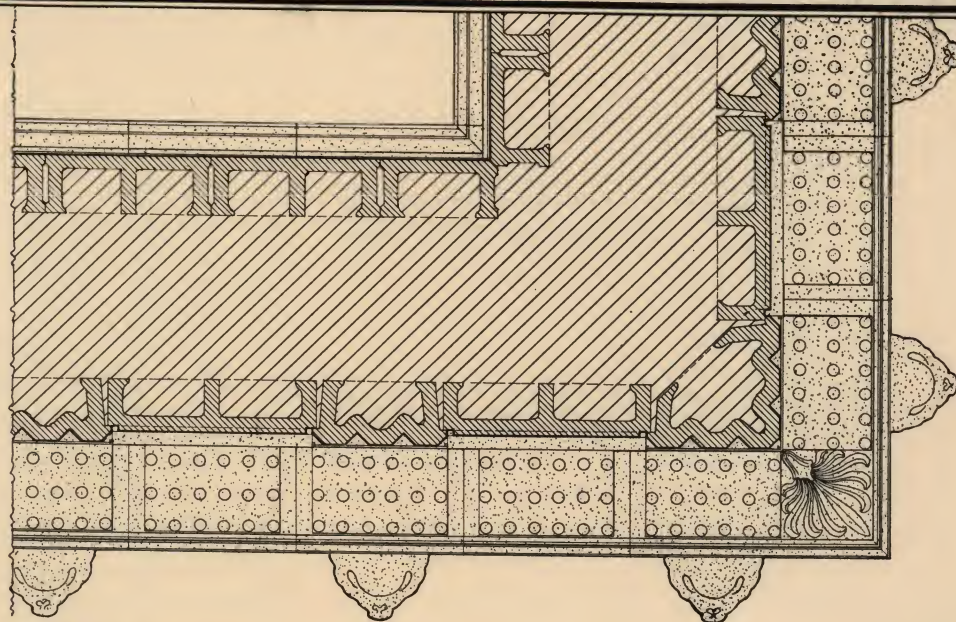


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

SECTION  
ALTERNATE  
WITH PARAPET  
THE 25° ANGLES AT  
JOINTS BEING  
OMITTED



PLAN  
THRO' FRIEZE OF CORNICE  
LOOKING VP



CONTINUOUS GROOVE FOR FLASHING

COPPER ROOF

2" CHANNEL

2" ANCHOR RODS

1/2" PLATE

1" HANGERS

12" CHANNELS

4" X 5" ANGLES

SECTION  
THRO' CORNICE

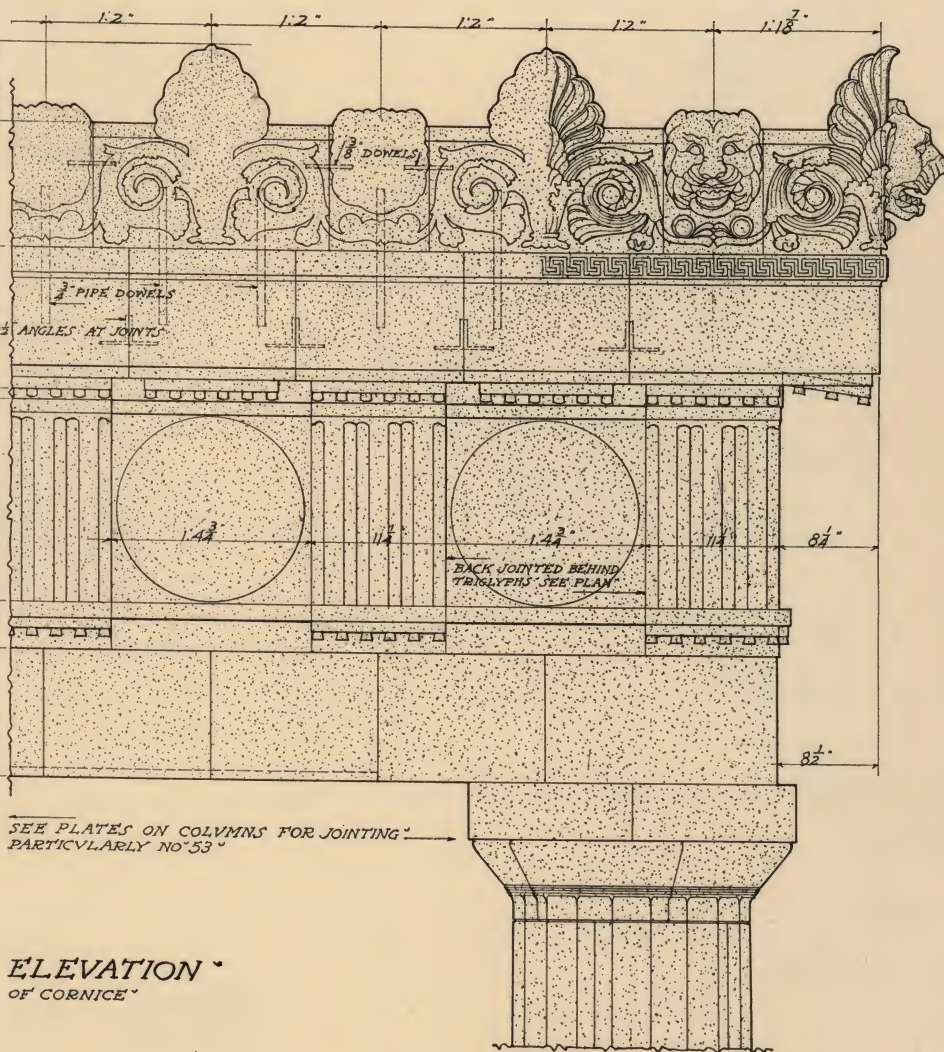
CORNICE

WITH CHENEAV · PANELED SOFFIT · ETC ·  
SHOWING METHOD OF SUPPORT AND ANCHORAGE

SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT

ELEVATION  
OF CORNICE

SEE PLATES ON COLUMNS FOR JOINTING ·  
PARTICULARLY NO · 53 ·

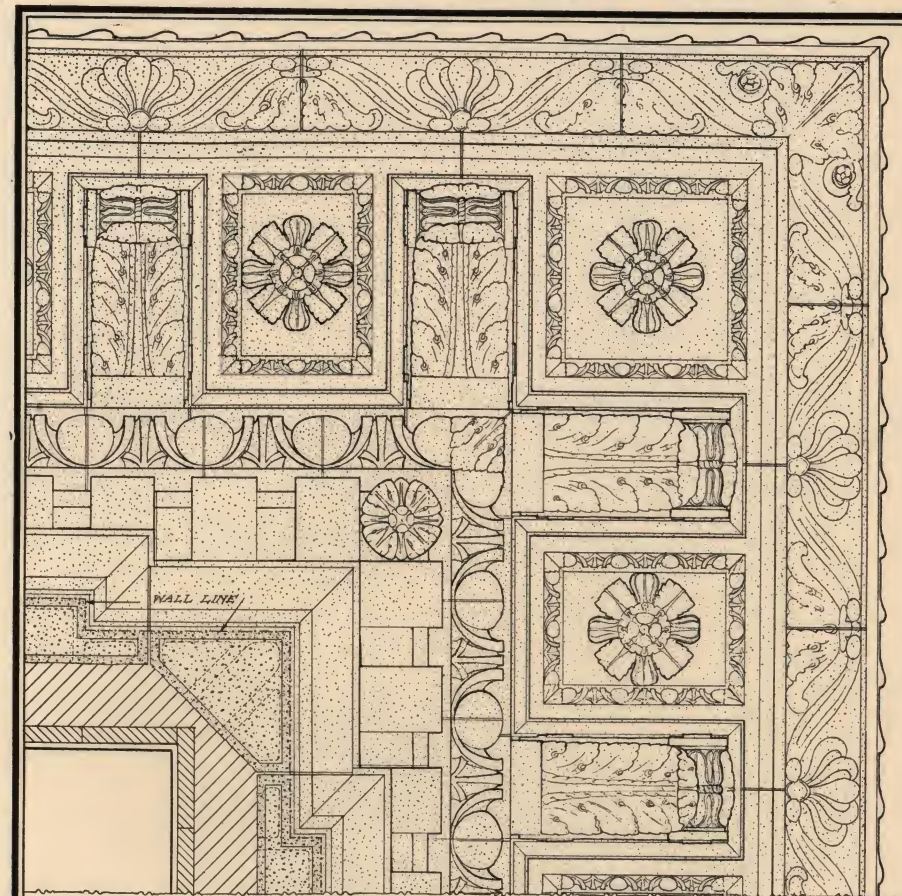




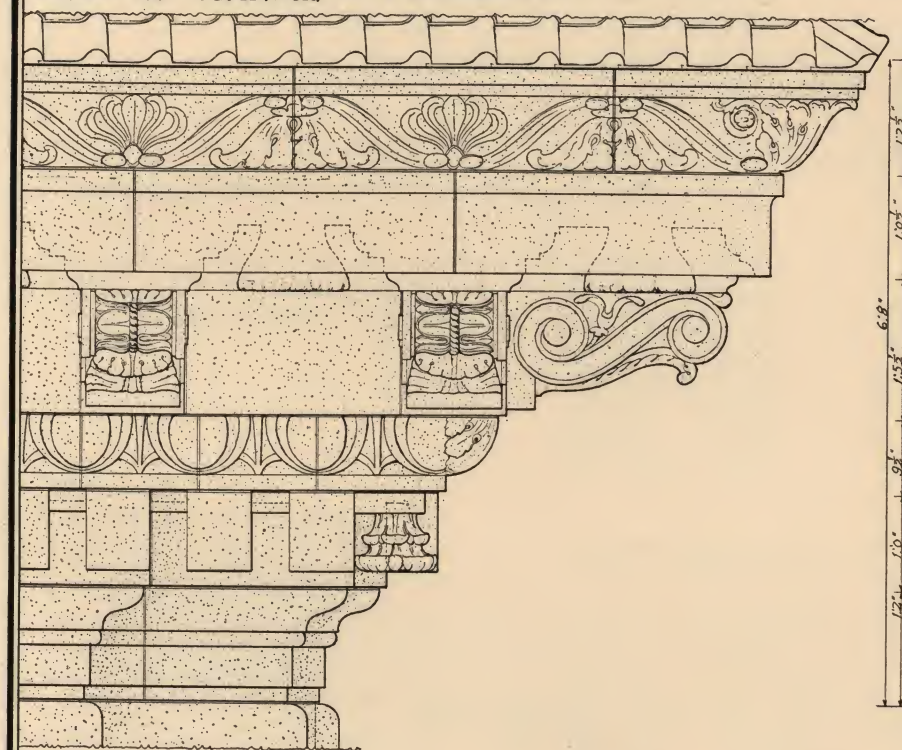




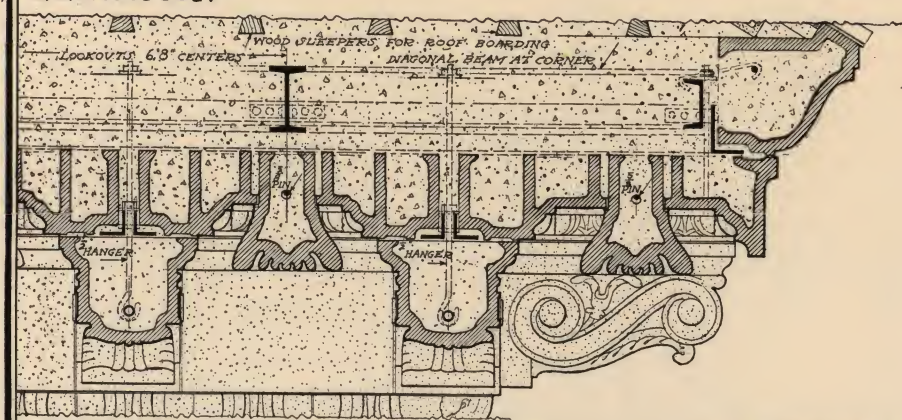
# ARCHITECTURAL TERRA COTTA · STANDARD CONSTRUCTION



PLAN OF CORNICE AT A LOOKING UP



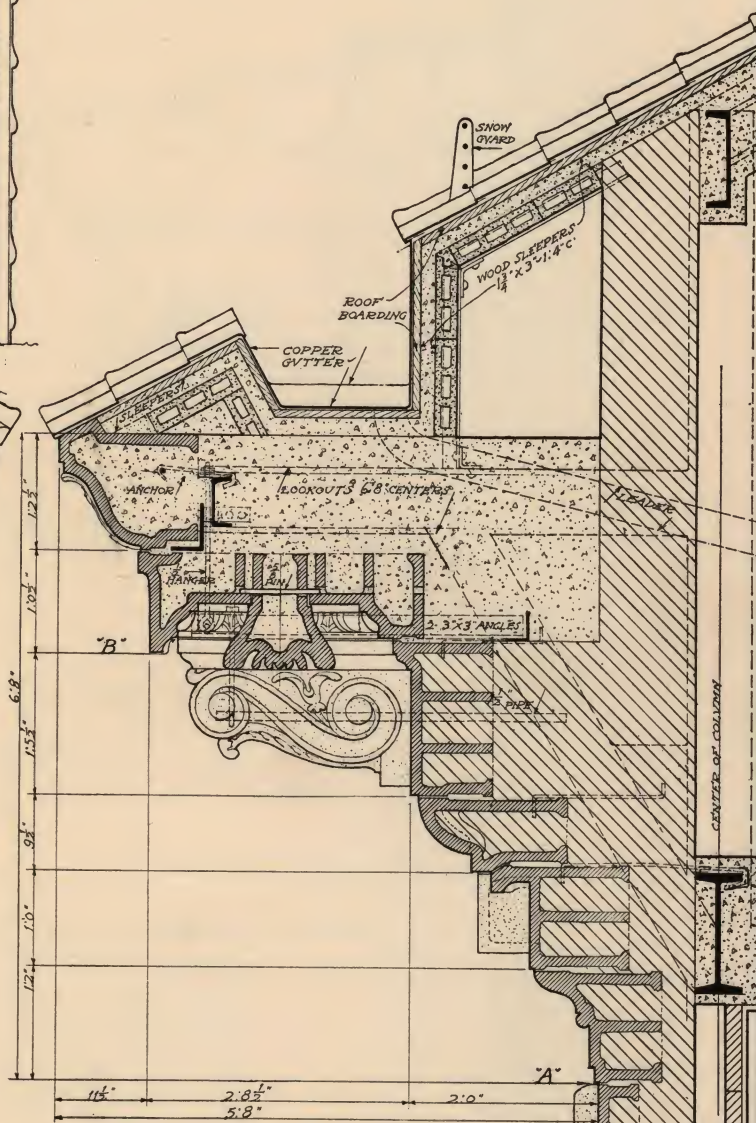
ELEVATION



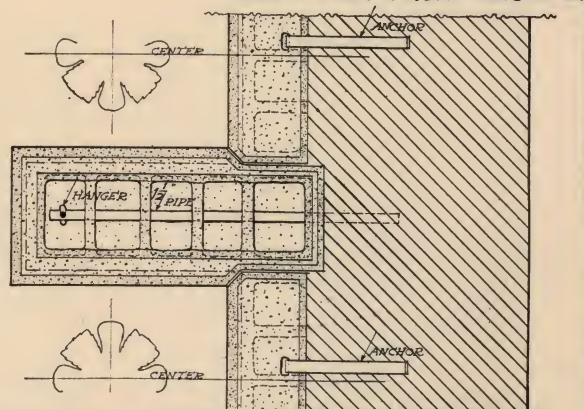
SECTION THRO MODILLIONS AND SOFFIT

## MODILLION CORNICE WITH GUTTER AND TILE ROOF SHOWING METHOD OF SUPPORT AND ANCHORAGE

COMPARED TO OTHER MATERIALS WITH LASTING QUALITIES  
DECORATION IN ARCHITECTURAL TERRA COTTA IS INEXPENSIVE  
PARTICULARLY WHERE CONSIDERABLE DUPLICATION OF MODELS OCCUR



SECTION THRO CORNICE



PLAN TOP BED OF MODILLIONS

SCALE ONE-HALF INCH EQUALS ONE FOOT





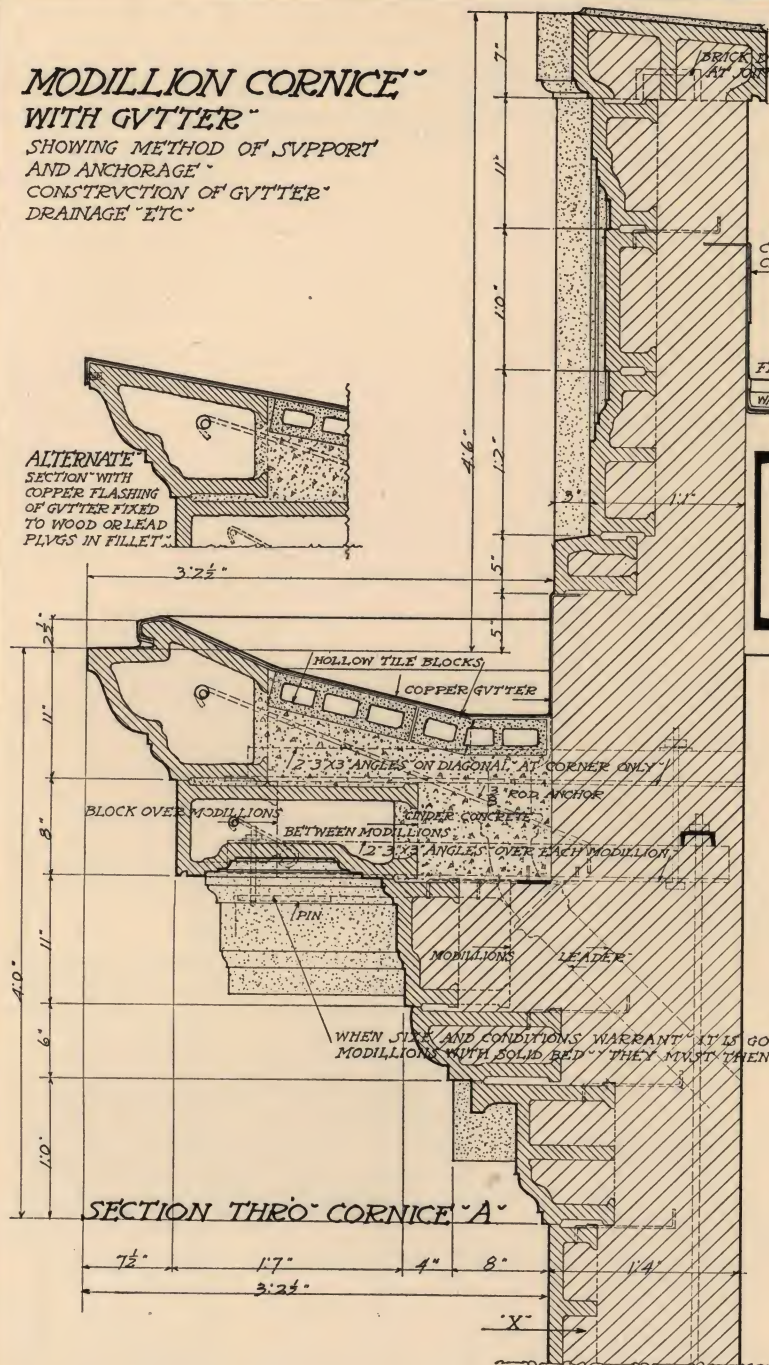


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## MODILLION CORNICE~ WITH GUTTER~

SHOWING METHOD OF SUPPORT  
AND ANCHORAGE~  
CONSTRUCTION OF GUTTER~  
DRAINAGE~ETC~

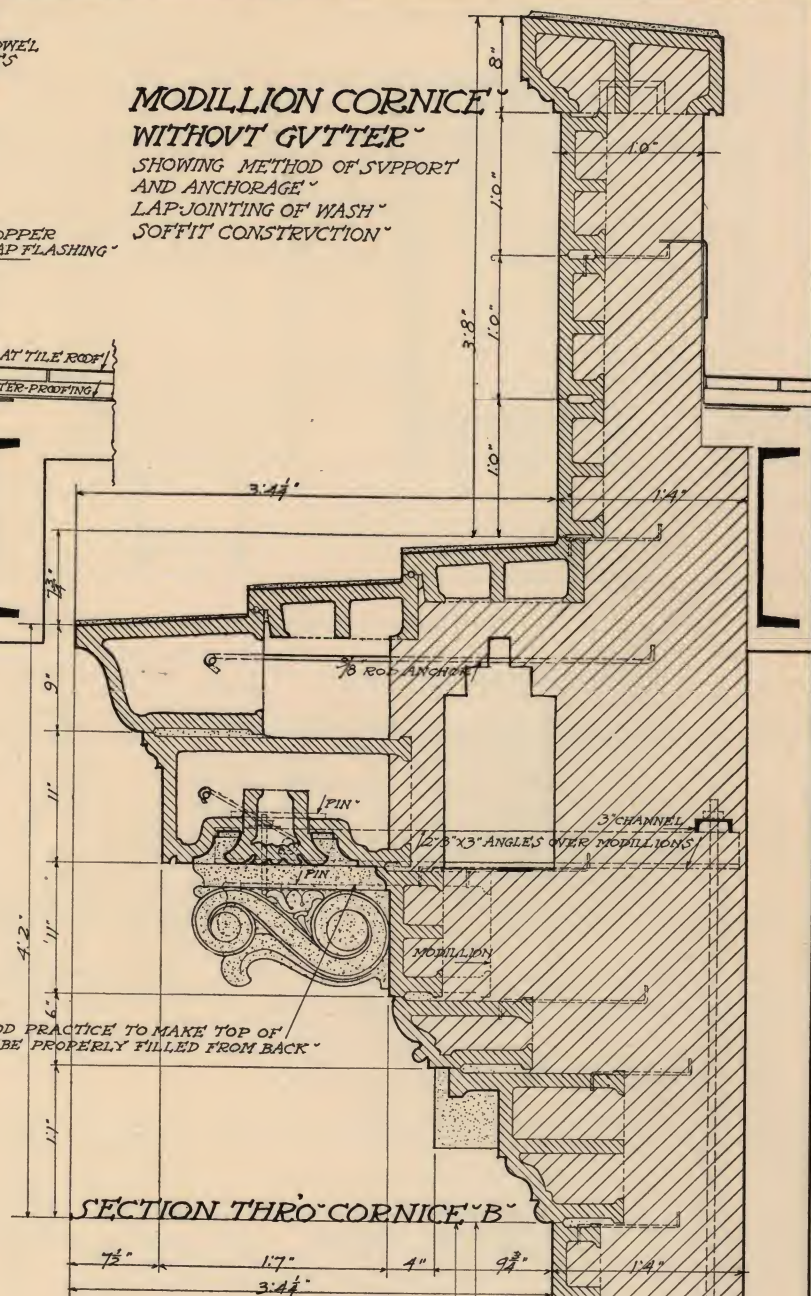
ALTERNATE  
SECTION~WITH  
COPPER FLASHING  
OF GUTTER FIXED  
TO WOOD OR LEAD  
PLUGS IN FILLET~



SECTION THRO' CORNICE 'A'

## MODILLION CORNICE~ WITHOUT GUTTER~

SHOWING METHOD OF SUPPORT  
AND ANCHORAGE~  
LAP-JOINTING OF WASH~  
SOFFIT CONSTRUCTION~

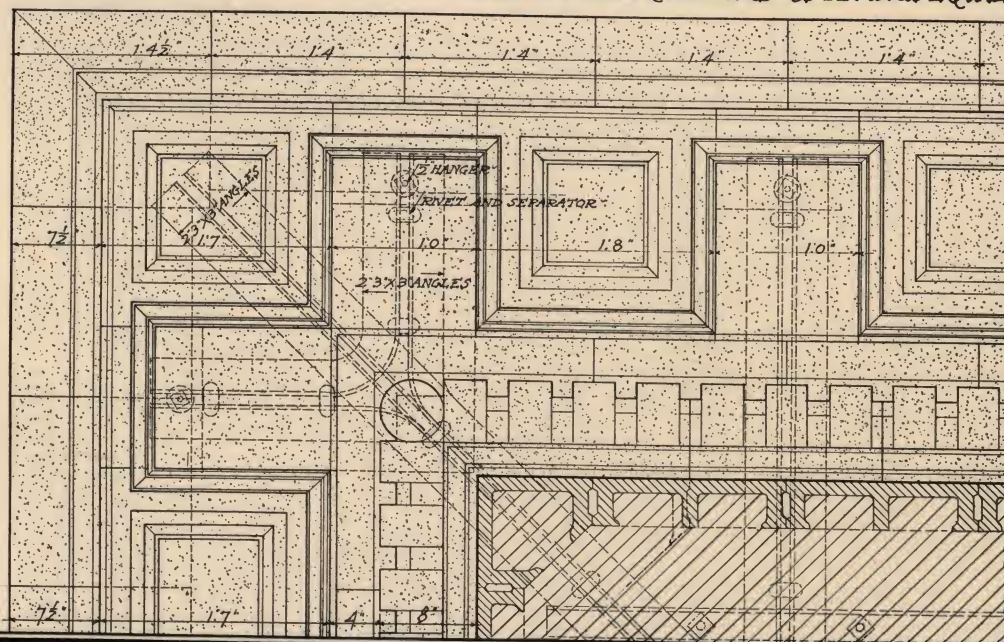


SECTION THRO' CORNICE 'B'

## PLAN OF CORNICE 'A'

TAKEN AT 'X' LOOKING UP~

SCALE~THREE QUARTERS OF AN INCH EQUALS ONE FOOT~

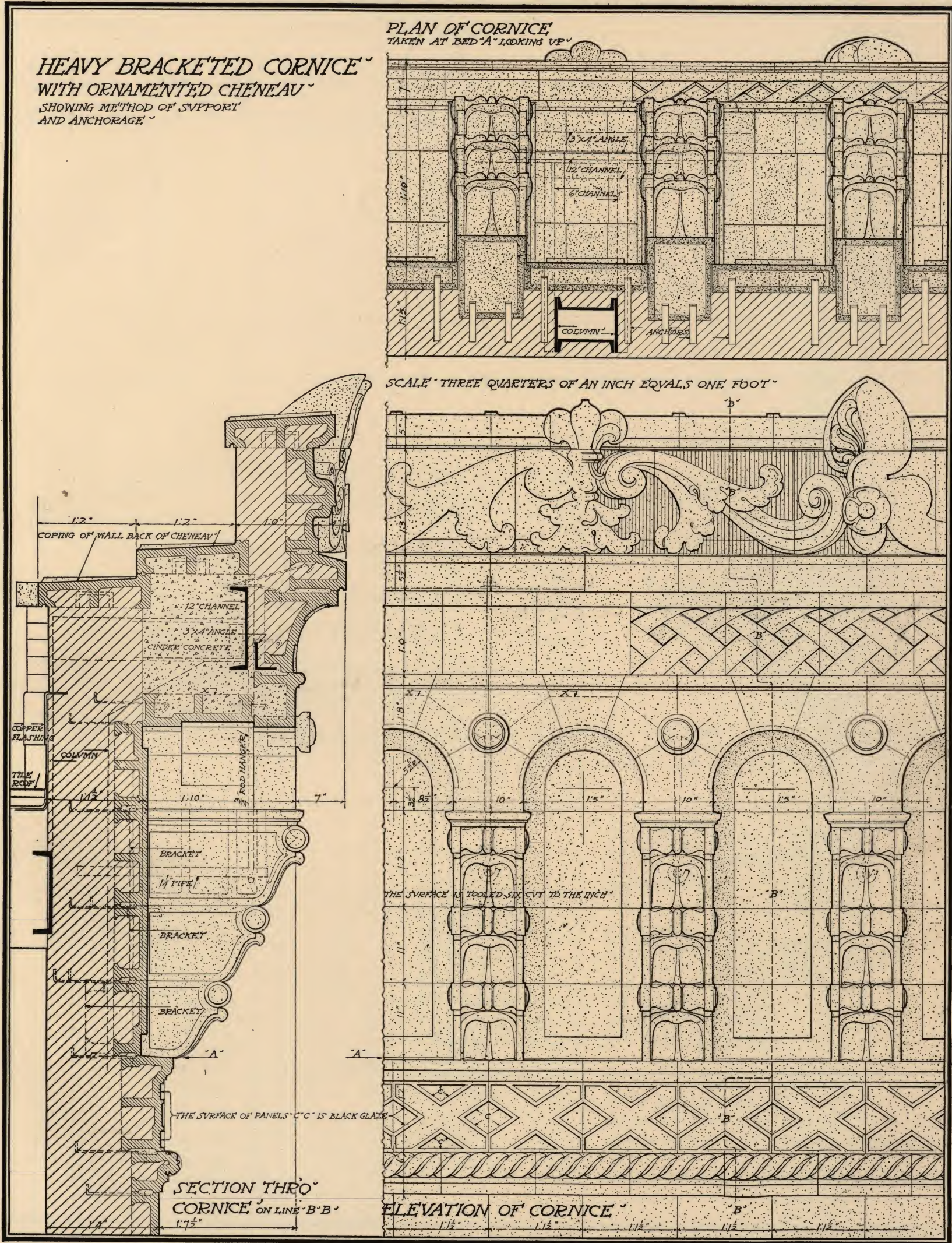




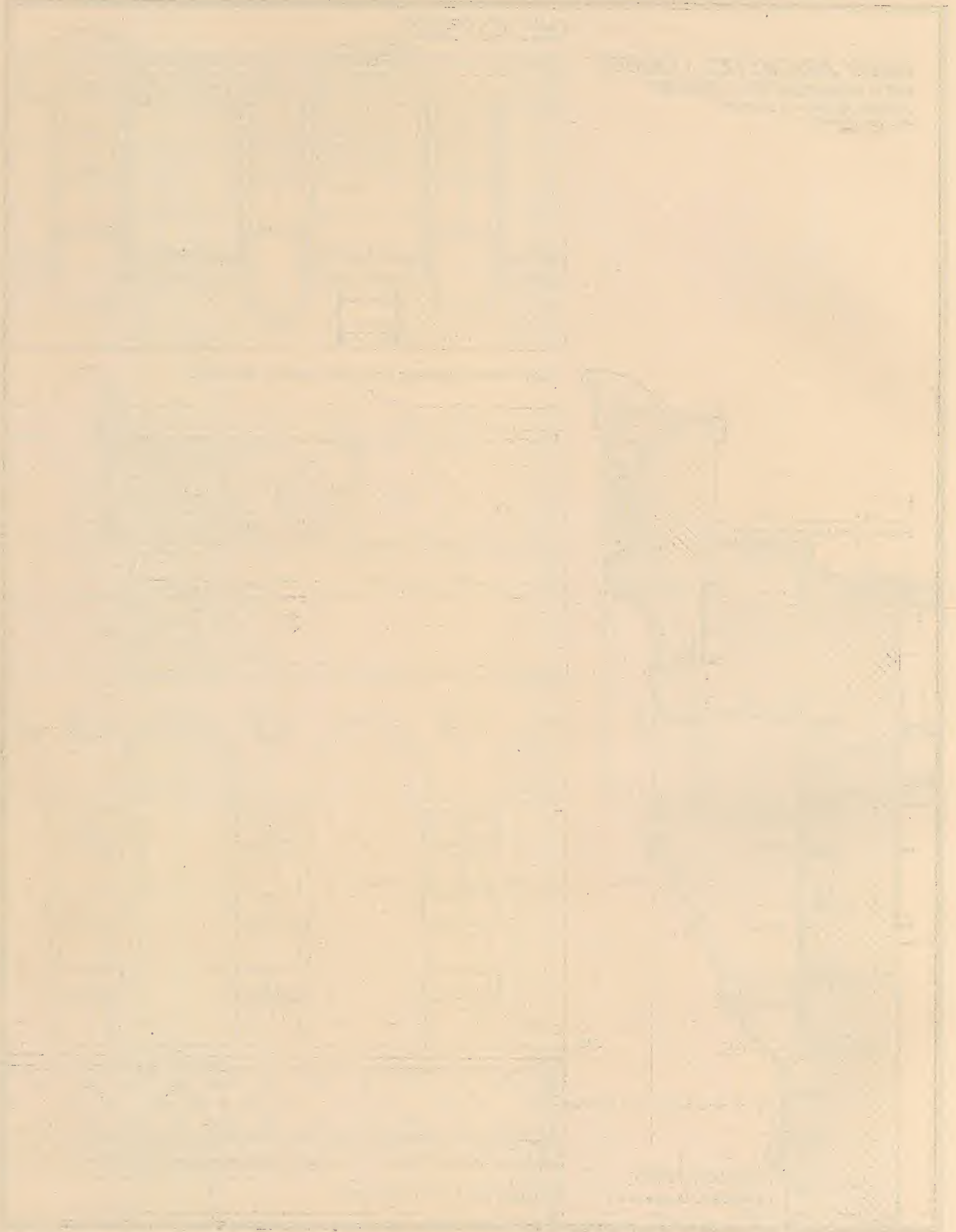




# ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

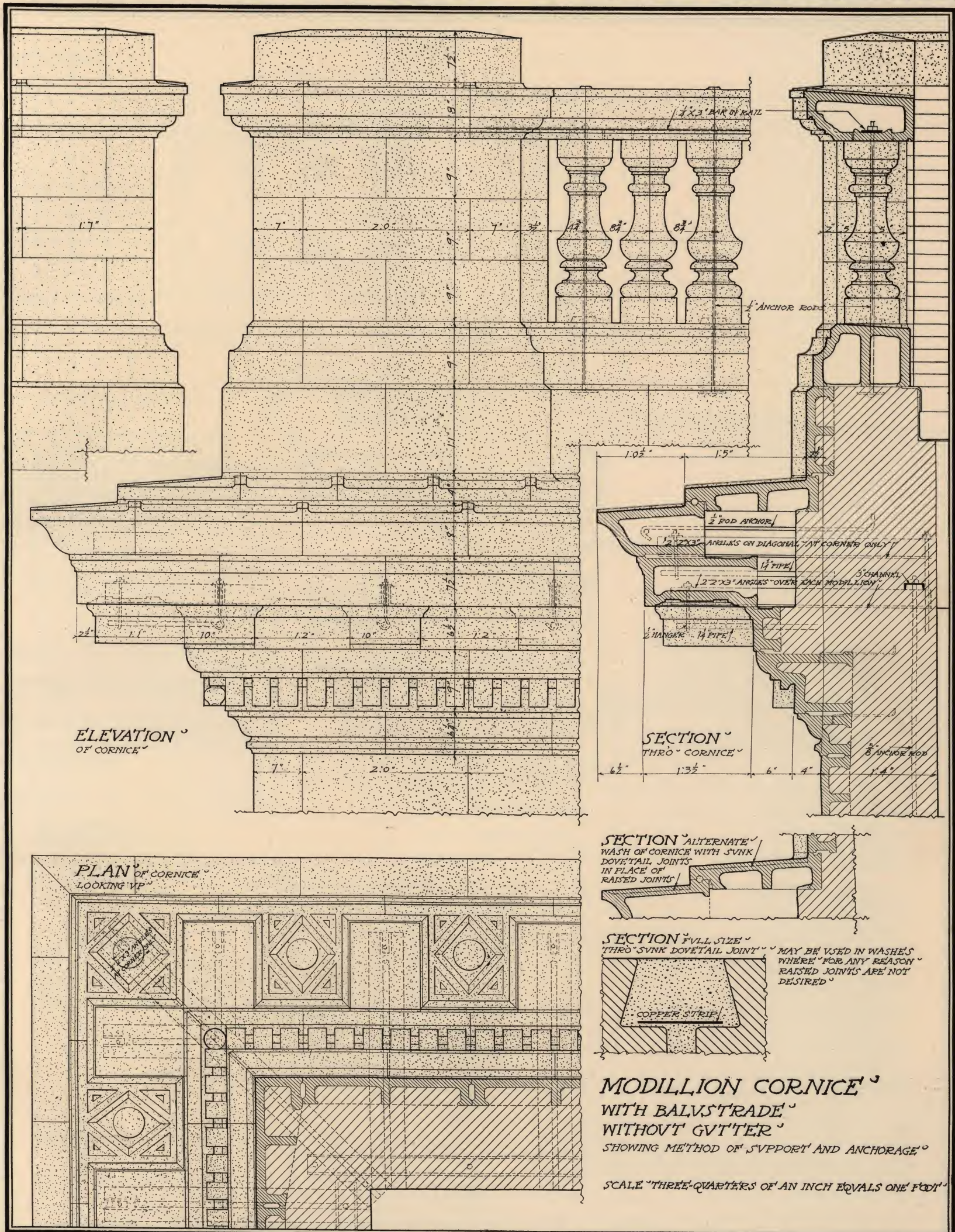








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









**ELEVATION**  
OF CORNICE AND BALUSTRADE

**SECTION**  
THRO' CORNICE AND SOFFITS

Labels and dimensions in the drawing include:

- 1/4" BAR IN RAIL
- 2" ANCHOR BOLTS
- SCYPFER
- COFFER
- HOLLOW TILES
- 1/2" ANCHOR ROD
- 5/8" ANGLES
- 2" 2"
- ALTERNATE SECURING COPPER TO WOOD OR LEAD PLUGS
- 5/8" I
- CHANNEL
- HEARING PLATE
- 1/2" ANCHOR BOLT
- HANGERS
- 2" 2" X 3" ANGLES OVER JOINTS
- 5/8" RODS
- 1" 8
- 2" 7"
- HANGERS

PLAN  
OF CORNICE AND SOFFITS  
LOOKING UP

SCALE: THREE QUARTERS OF AN INCH EQUALS ONE FOOT







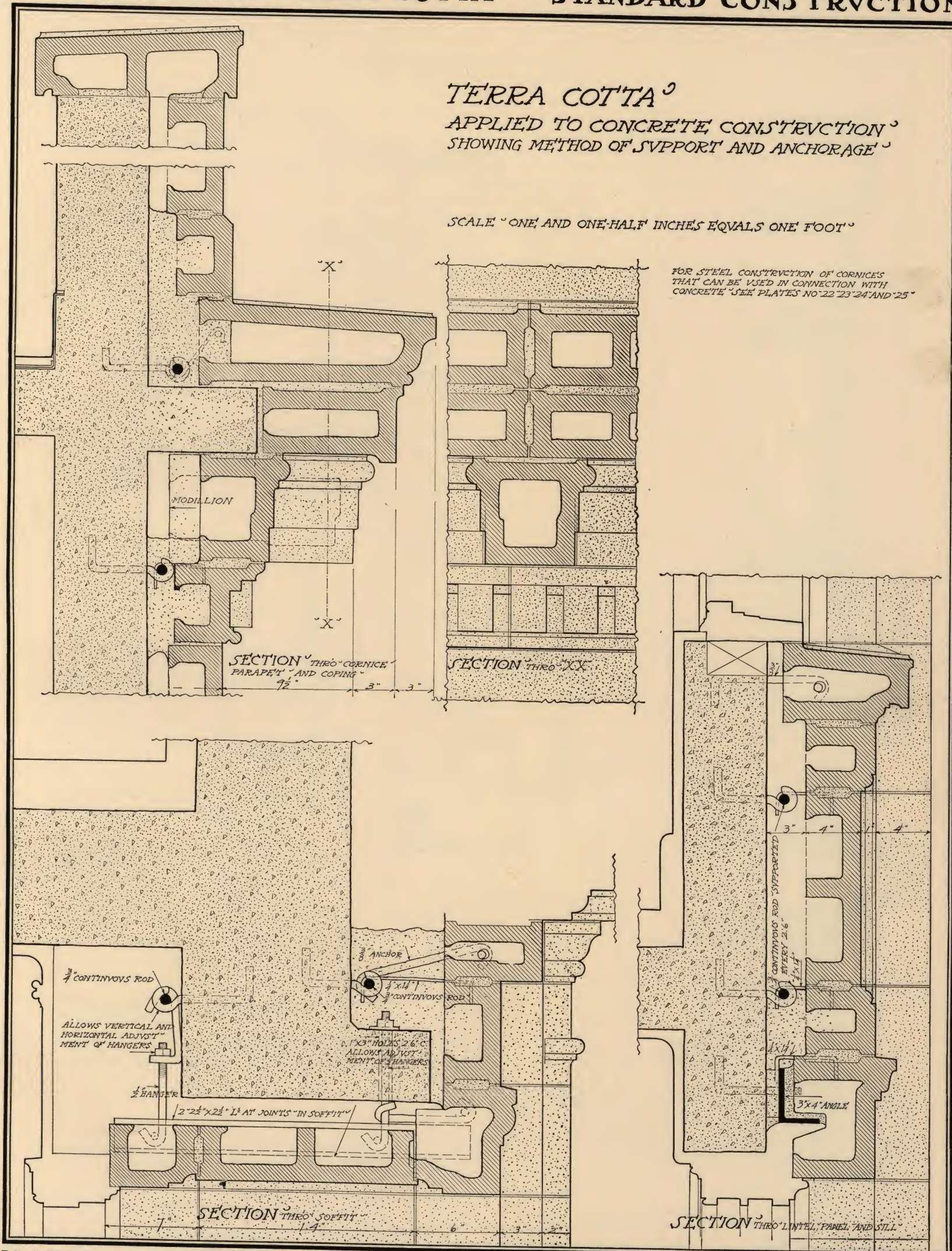
# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## TERRA COTTA<sup>o</sup>

APPLIED TO CONCRETE CONSTRUCTION<sup>o</sup>  
SHOWING METHOD OF SUPPORT AND ANCHORAGE<sup>o</sup>

SCALE "ONE AND ONE-HALF INCHES EQUALS ONE FOOT"

FOR STEEL CONSTRUCTION OF CORNICES  
THAT CAN BE USED IN CONNECTION WITH  
CONCRETE "SEE PLATES NO. 22, 23, 24 AND 25"

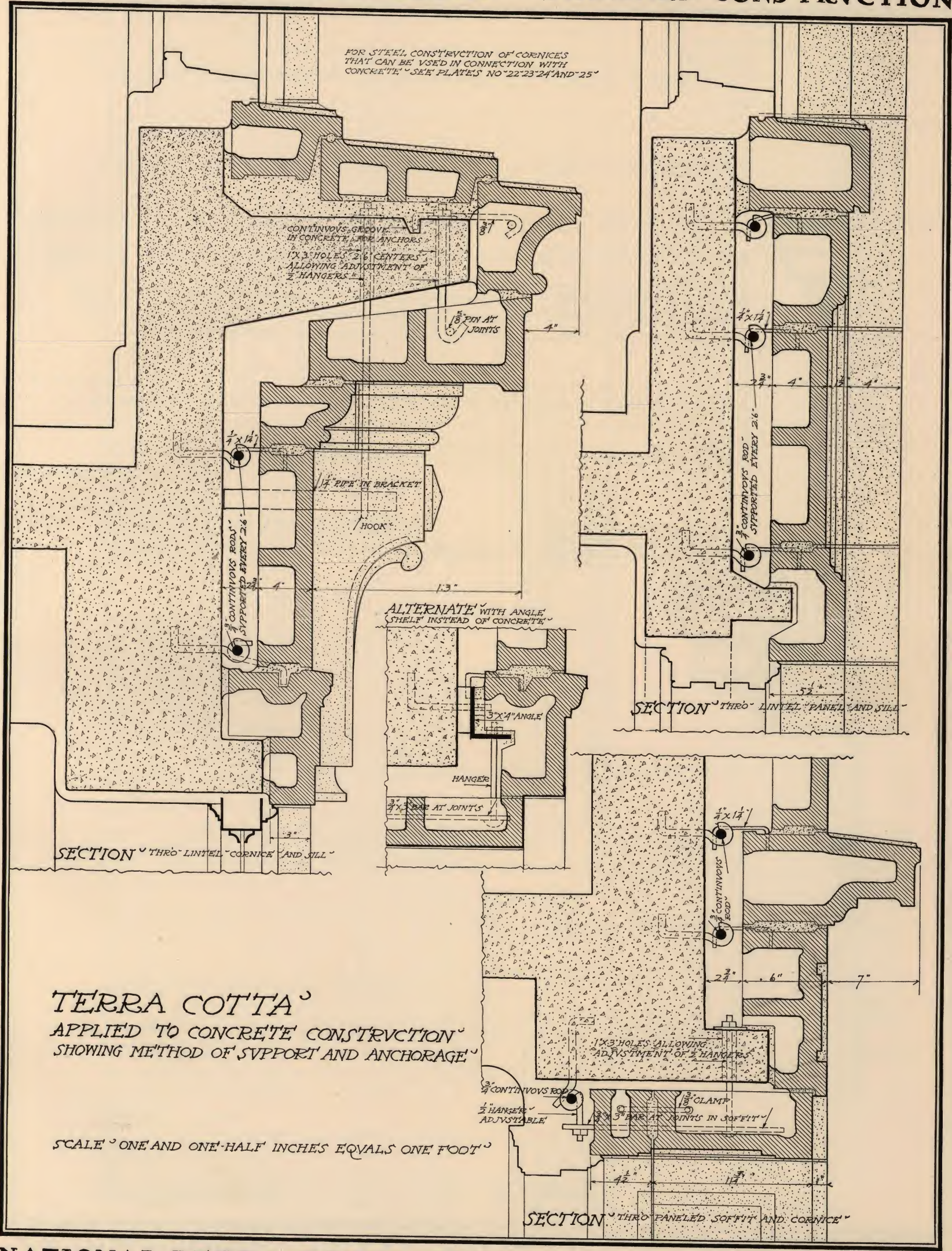








# ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION









This architectural drawing illustrates a cornice with parapet, ashlar sill course, and paneled mullion. The main elevation shows a detailed view of the stone work with various dimensions. A note specifies that the panel in the mullion is jointed vertically to allow for adjustment in alignment in setting, while the top and bottom pieces are not jointed. An alternate crown for large cornices joined in two is also shown. The drawing includes a scale of one-half inch equals one foot, and labels for ELEVATION, PLAN, and SECTION views.

**CORNICE WITH PARAPET<sup>~</sup>**  
**ASHLAR SILL COURSE AND PANELED MULLION<sup>~</sup>**

NOTE THAT THE PANEL IN MULLION IS JOINTED VERTICALLY TO ALLOW OF ADJUSTMENT IN ALIGNMENT IN SETTING SEE PLAN THE TOP AND BOTTOM PIECES ARE NOT JOINTED

ALTERNATE CROWN OF LARGE CORNICES JOINED IN TWO

SCALE ONE-HALF INCH EQUALS ONE FOOT

ELEVATION

PLAN

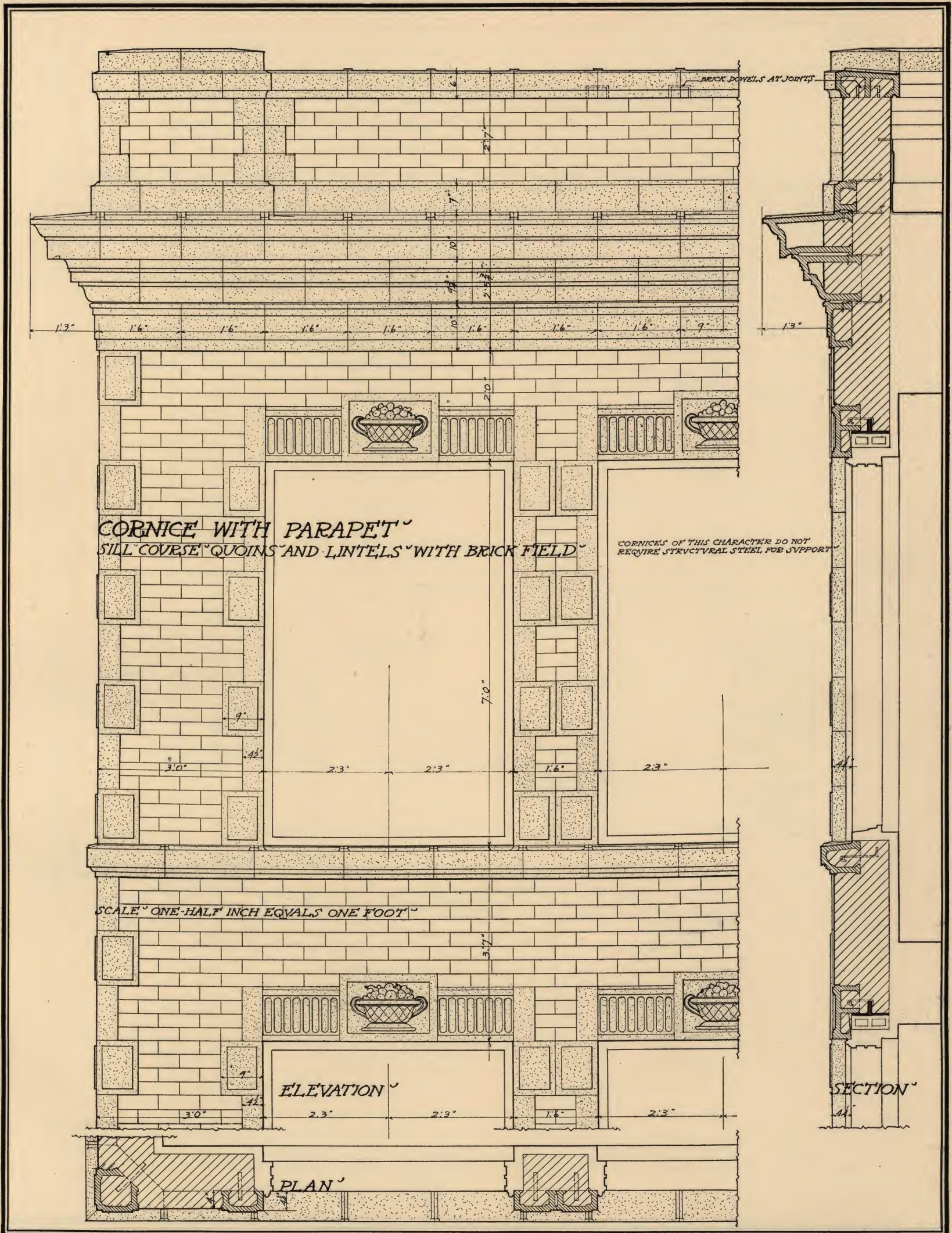
SECTION







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









[illegible]







Architectural drawing of a store front with piers and cornice, including elevations, plan, and section views.

**PLAN THRO' WINDOWS ABOVE CORNICE**

**ELEVATION SIDE OF RETURN**

**ELEVATION FRONT VIEW**

**SECTION THRO' OPENINGS**

**PLAN THRO' X-X**

**STORE FRONT PIERS AND CORNICE WITH WINDOWS ABOVE**

**SCALE THREE QUARTERS OF AN INCH EQUALS ONE FOOT**

Labels and dimensions include: 8", 10", 12", 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 34", 36", 38", 40", 42", 44", 46", 48", 50", 52", 54", 56", 58", 60", 62", 64", 66", 68", 70", 72", 74", 76", 78", 80", 82", 84", 86", 88", 90", 92", 94", 96", 98", 100", 102", 104", 106", 108", 110", 112", 114", 116", 118", 120", 122", 124", 126", 128", 130", 132", 134", 136", 138", 140", 142", 144", 146", 148", 150", 152", 154", 156", 158", 160", 162", 164", 166", 168", 170", 172", 174", 176", 178", 180", 182", 184", 186", 188", 190", 192", 194", 196", 198", 200", 202", 204", 206", 208", 210", 212", 214", 216", 218", 220", 222", 224", 226", 228", 230", 232", 234", 236", 238", 240", 242", 244", 246", 248", 250", 252", 254", 256", 258", 260", 262", 264", 266", 268", 270", 272", 274", 276", 278", 280", 282", 284", 286", 288", 290", 292", 294", 296", 298", 300", 302", 304", 306", 308", 310", 312", 314", 316", 318", 320", 322", 324", 326", 328", 330", 332", 334", 336", 338", 340", 342", 344", 346", 348", 350", 352", 354", 356", 358", 360", 362", 364", 366", 368", 370", 372", 374", 376", 378", 380", 382", 384", 386", 388", 390", 392", 394", 396", 398", 400", 402", 404", 406", 408", 410", 412", 414", 416", 418", 420", 422", 424", 426", 428", 430", 432", 434", 436", 438", 440", 442", 444", 446", 448", 450", 452", 454", 456", 458", 460", 462", 464", 466", 468", 470", 472", 474", 476", 478", 480", 482", 484", 486", 488", 490", 492", 494", 496", 498", 500", 502", 504", 506", 508", 510", 512", 514", 516", 518", 520", 522", 524", 526", 528", 530", 532", 534", 536", 538", 540", 542", 544", 546", 548", 550", 552", 554", 556", 558", 560", 562", 564", 566", 568", 570", 572", 574", 576", 578", 580", 582", 584", 586", 588", 590", 592", 594", 596", 598", 600", 602", 604", 606", 608", 610", 612", 614", 616", 618", 620", 622", 624", 626", 628", 630", 632", 634", 636", 638", 640", 642", 644", 646", 648", 650", 652", 654", 656", 658", 660", 662", 664", 666", 668", 670", 672", 674", 676", 678", 680", 682", 684", 686", 688", 690", 692", 694", 696", 698", 700", 702", 704", 706", 708", 710", 712", 714", 716", 718", 720", 722", 724", 726", 728", 730", 732", 734", 736", 738", 740", 742", 744", 746", 748", 750", 752", 754", 756", 758", 760", 762", 764", 766", 768", 770", 772", 774", 776", 778", 780", 782", 784", 786", 788", 790", 792", 794", 796", 798", 800", 802", 804", 806", 808", 810", 812", 814", 816", 818", 820", 822", 824", 826", 828", 830", 832", 834", 836", 838", 840", 842", 844", 846", 848", 850", 852", 854", 856", 858", 860", 862", 864", 866", 868", 870", 872", 874", 876", 878", 880", 882", 884", 886", 888", 890", 892", 894", 896", 898", 900", 902", 904", 906", 908", 910", 912", 914", 916", 918", 920", 922", 924", 926", 928", 930", 932", 934", 936", 938", 940", 942", 944", 946", 948", 950", 952", 954", 956", 958", 960", 962", 964", 966", 968", 970", 972", 974", 976", 978", 980", 982", 984", 986", 988", 990", 992", 994", 996", 998, 1000".





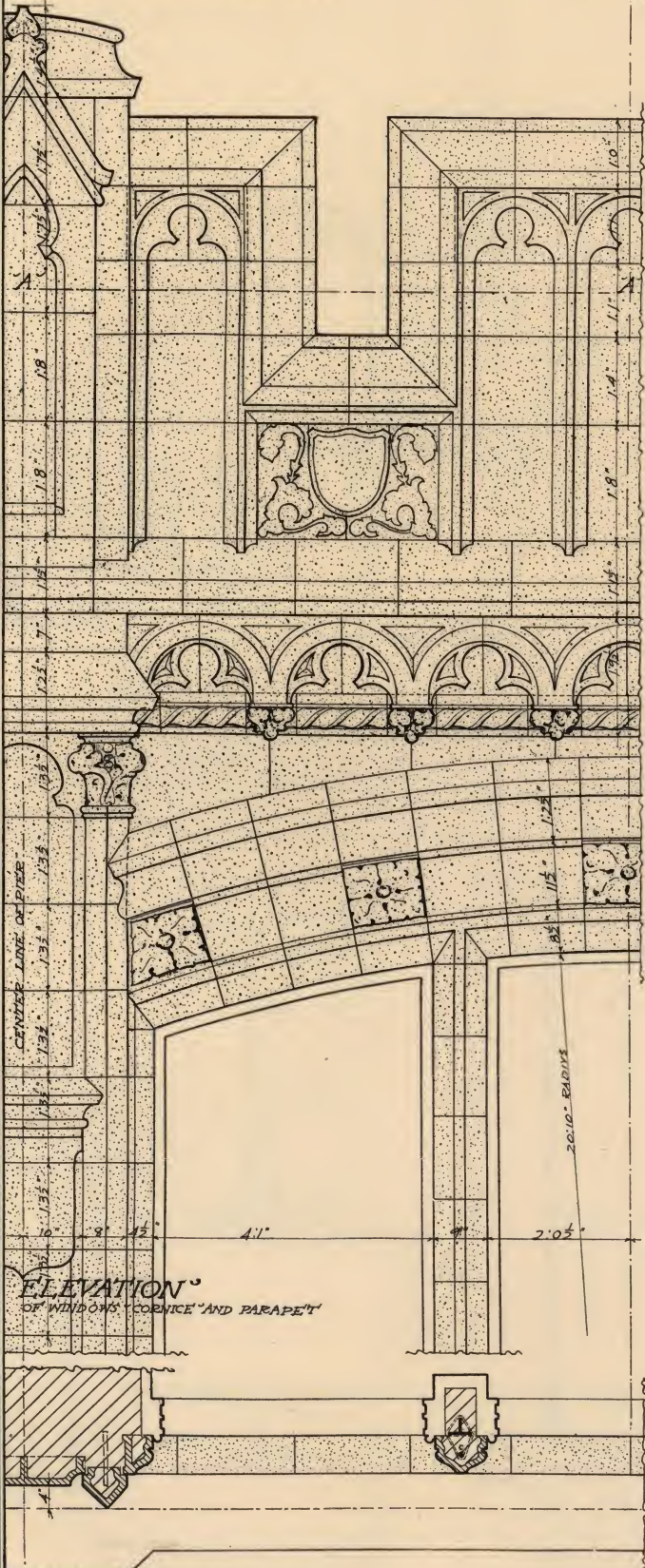


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## WINDOWS AND CORNICE WITH BATTLEMENTED PARAPET

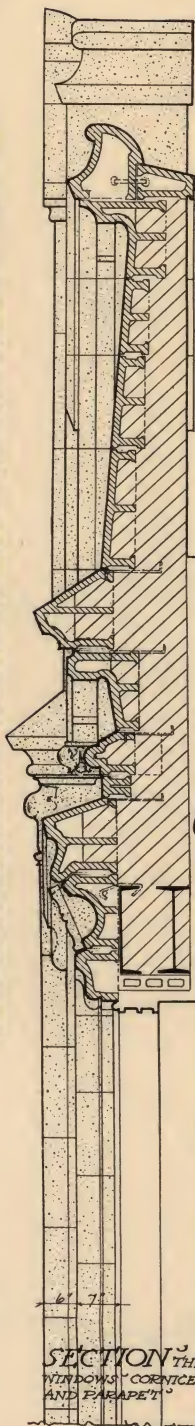
SCALE · THREE EIGHTHS OF AN INCH EQUALS ONE FOOT

PLAN THRO' PARAPET 'A-A'

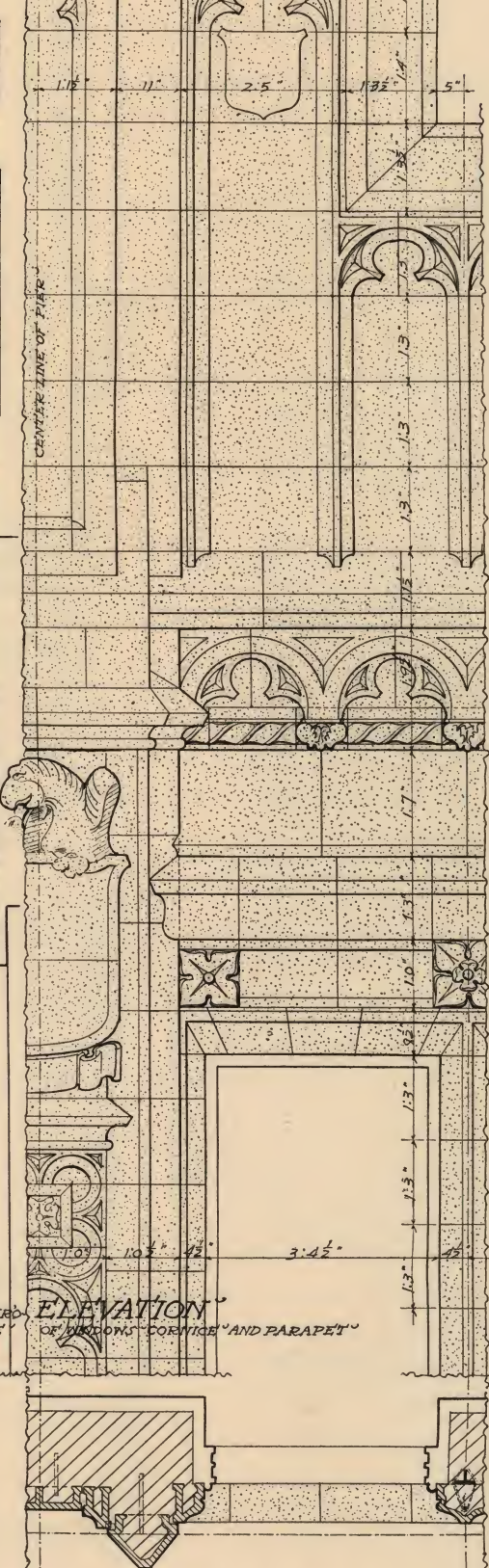


ELEVATION  
OF WINDOW, CORNICE AND PARAPET

PLAN  
THRO' PIER, WINDOWS AND MULLION

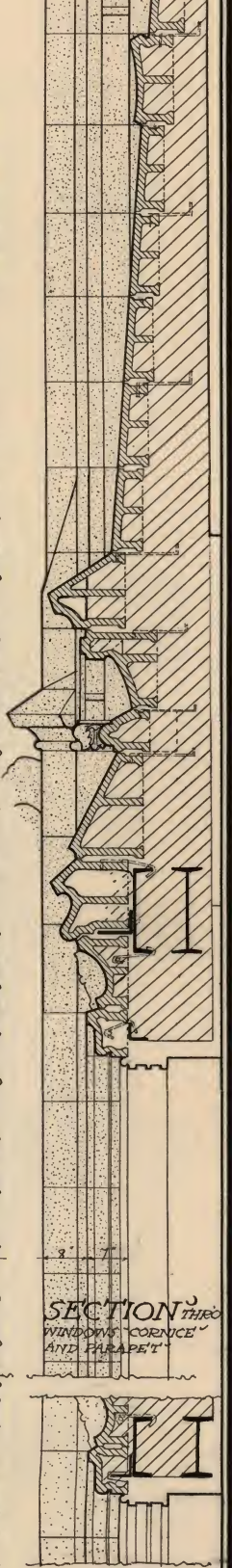


SECTION THRO'  
WINDOWS, CORNICE  
AND PARAPET



ELEVATION  
OF WINDOW, CORNICE AND PARAPET

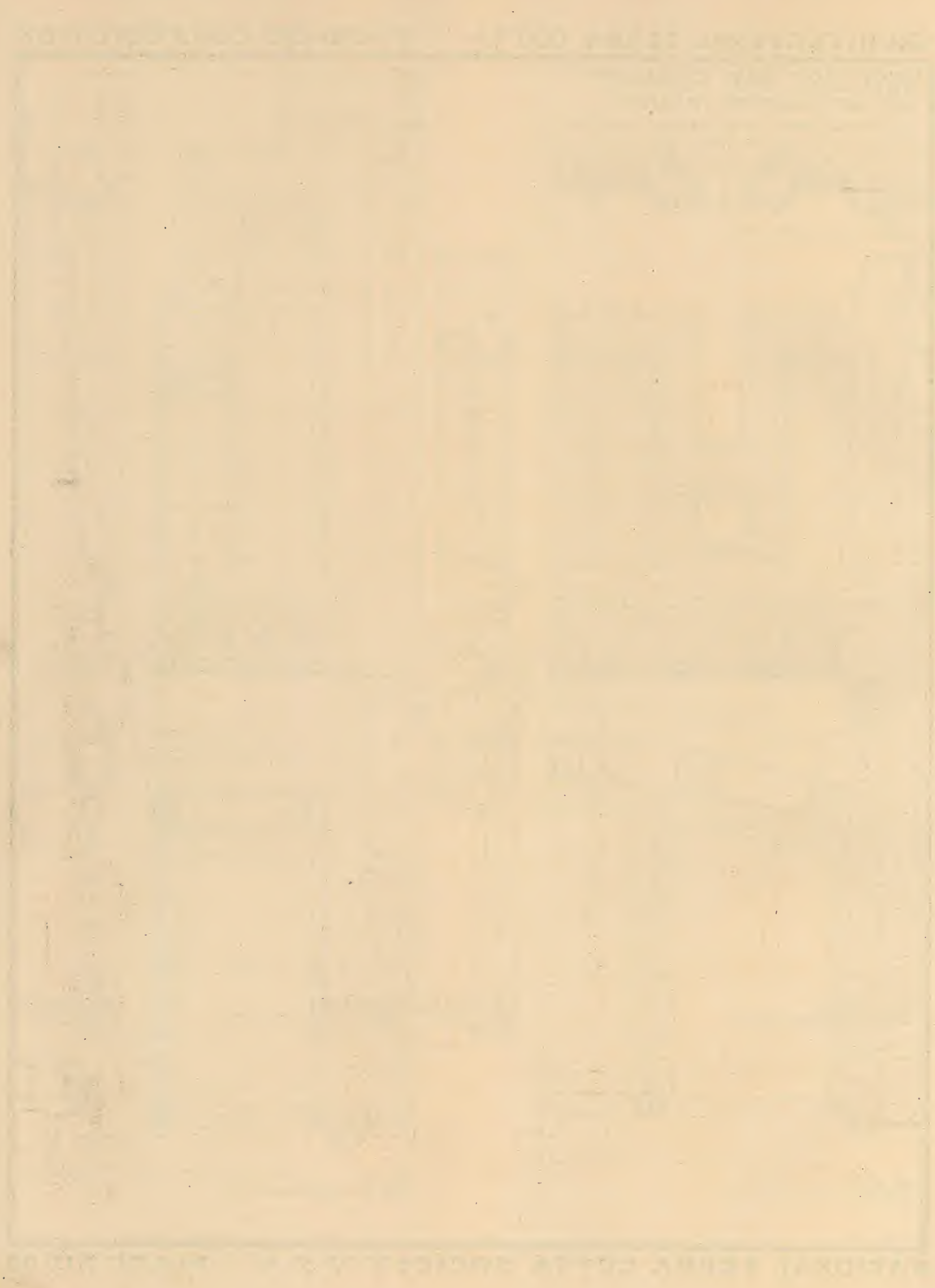
PLAN  
THRO' PIER, WINDOWS AND MULLION



SECTION THRO'  
WINDOWS, CORNICE  
AND PARAPET

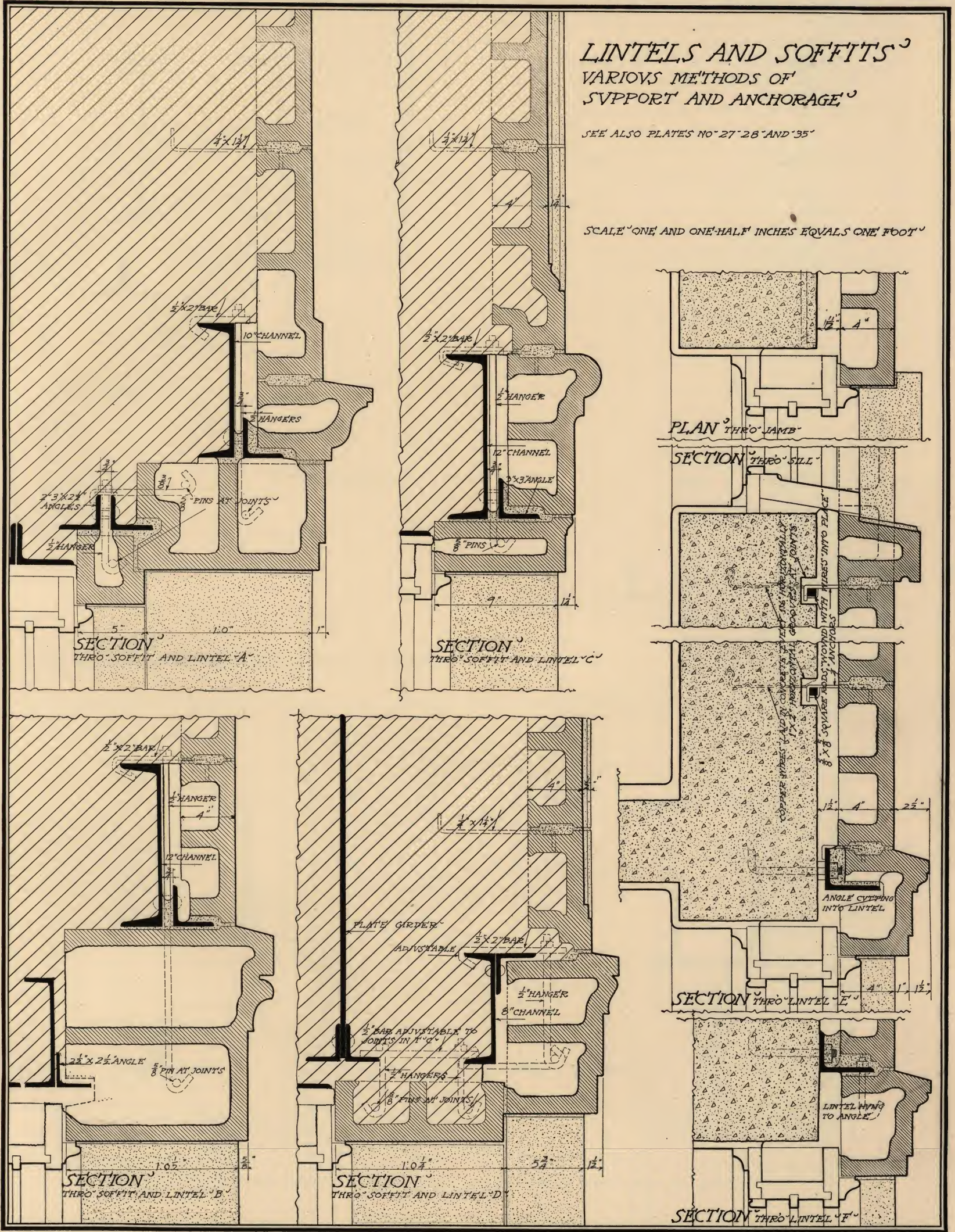
ALTERNATE  
LINTEL WITHOUT  
VOUSSEIRED JOINTS







ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

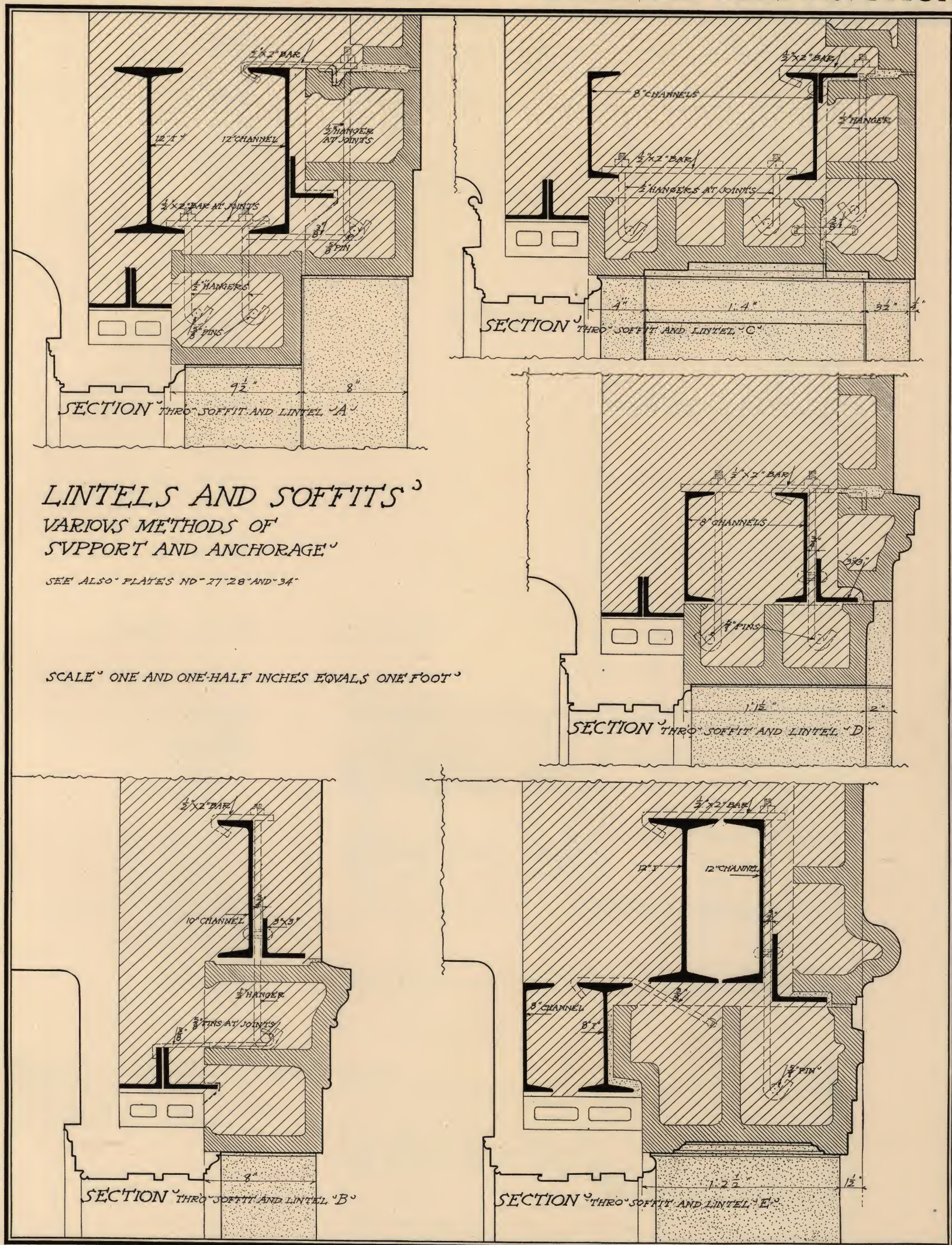








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

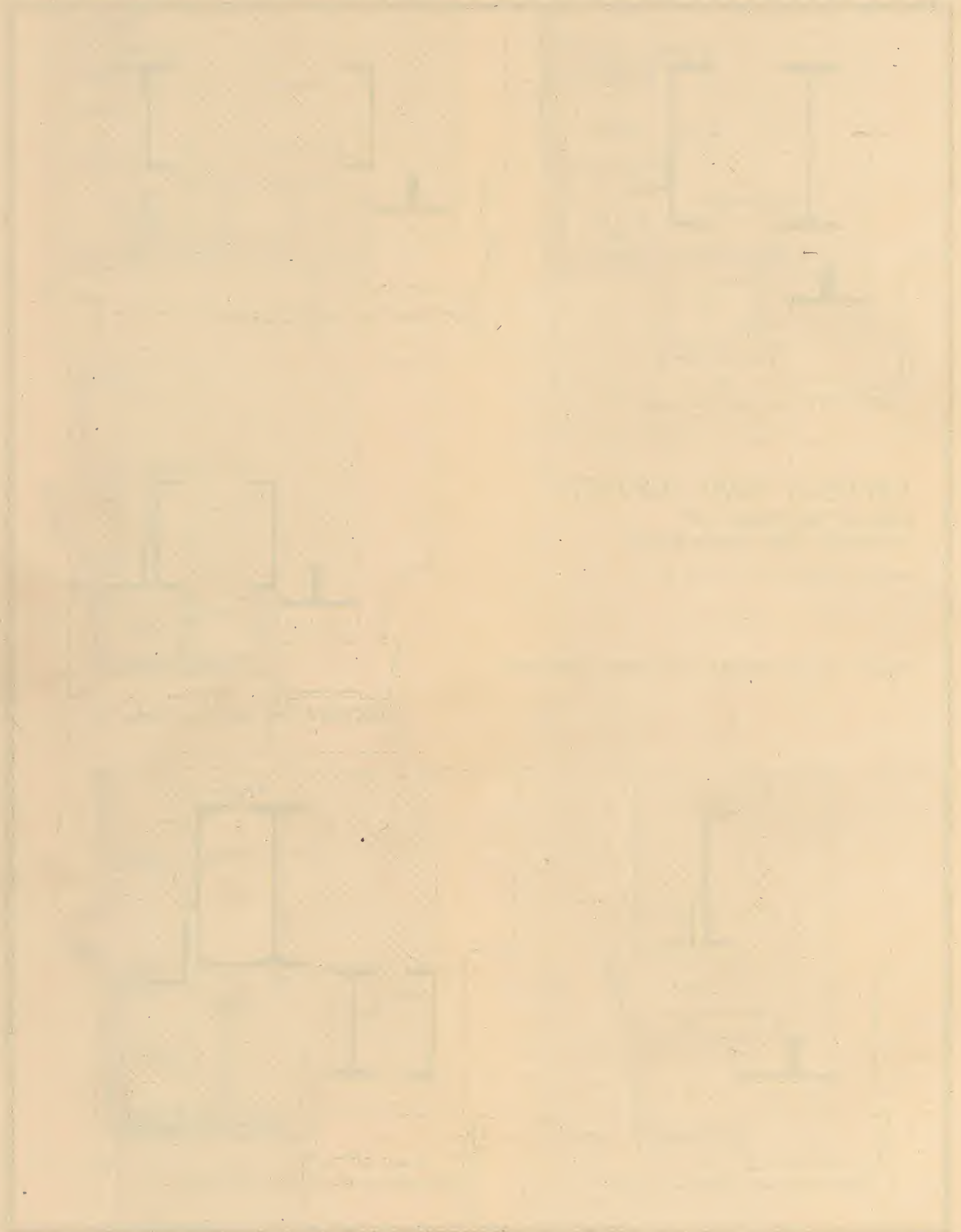


## LINTELS AND SOFFITS VARIOUS METHODS OF SUPPORT AND ANCHORAGE

SEE ALSO PLATES NO. 27, 28 AND 34

SCALE ONE AND ONE-HALF INCHES EQUALS ONE FOOT

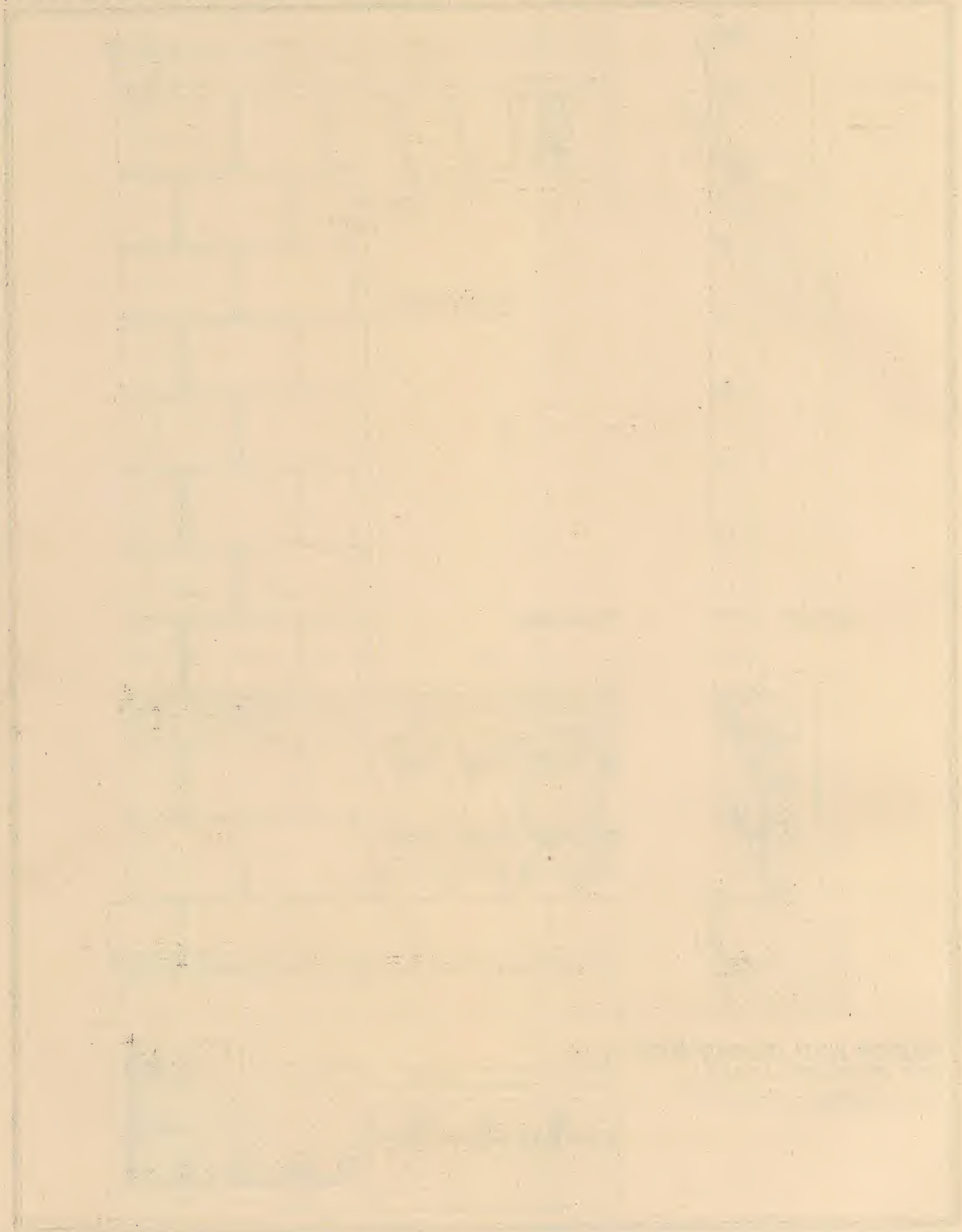






[illegible]







[illegible]

NATIONAL TERRA COTTA SOCIETY · V · S · A · · · PLATE NO · 37

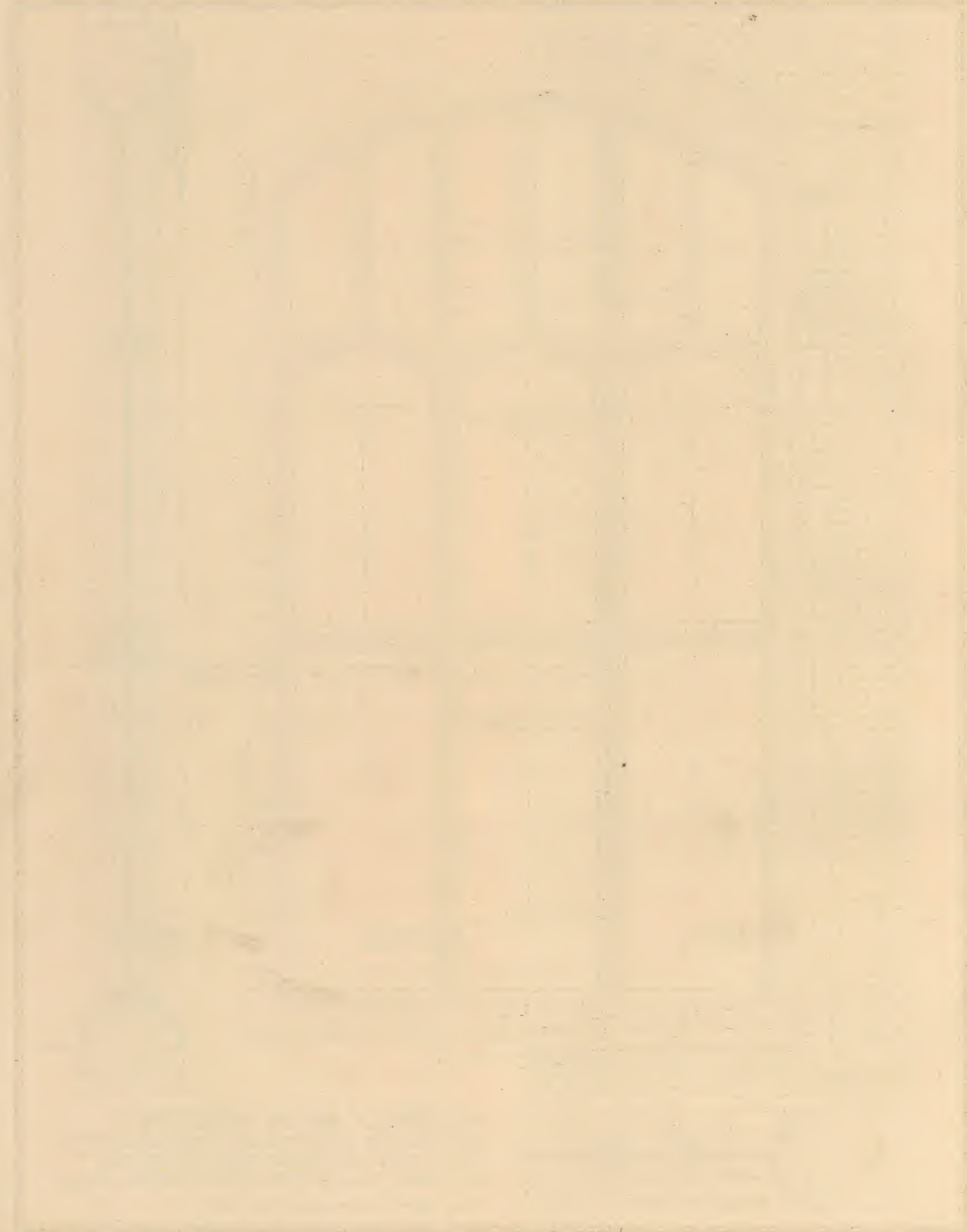






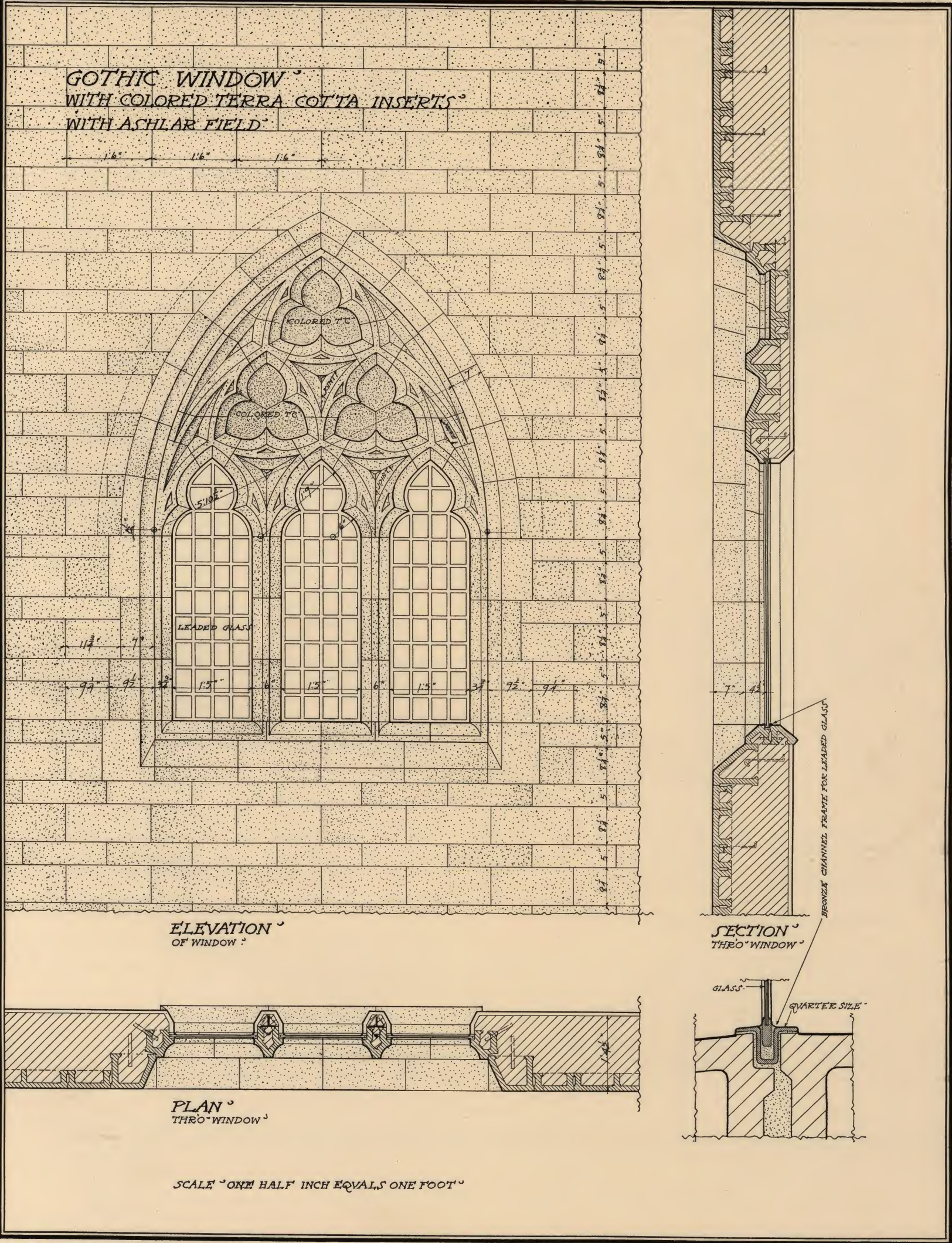
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ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

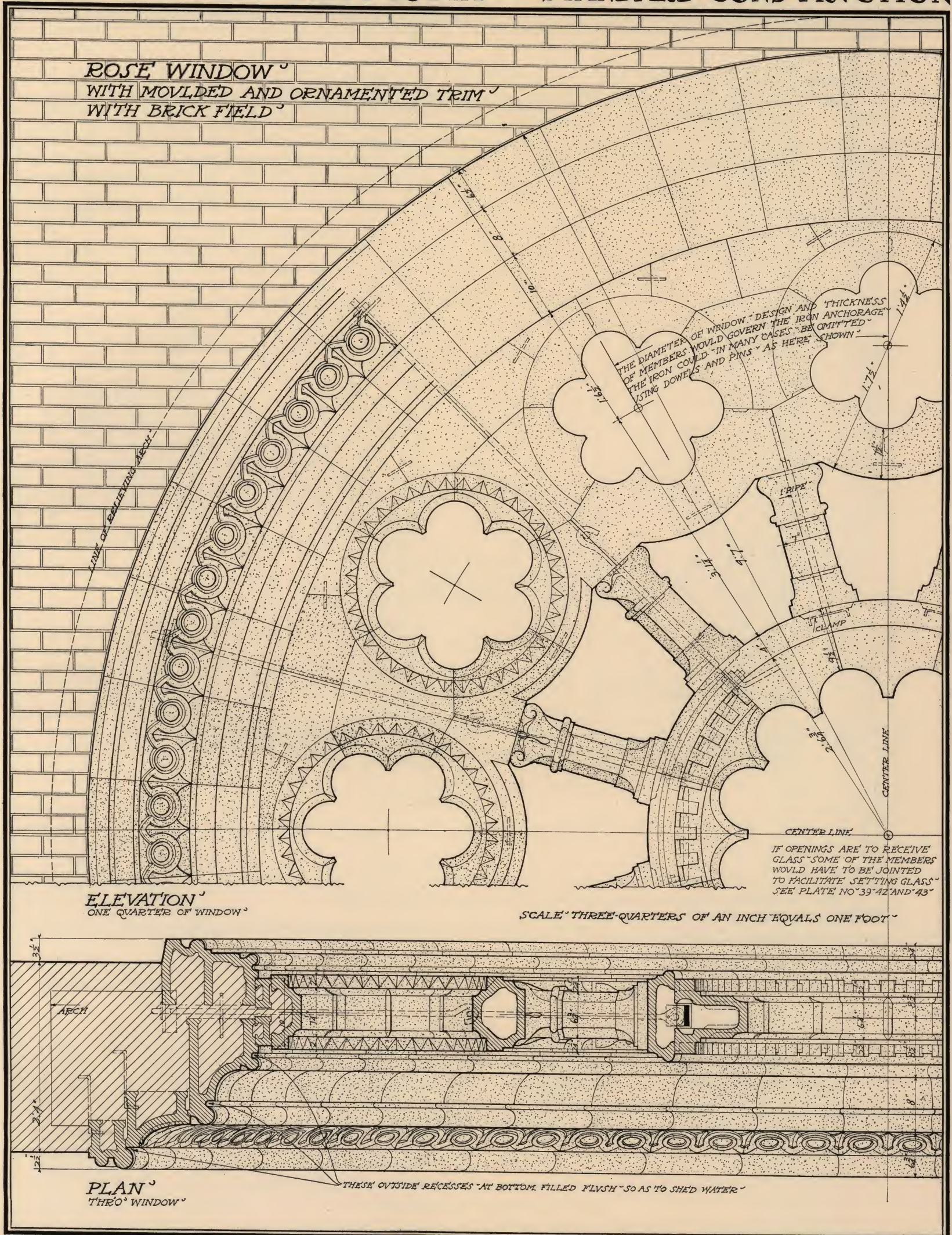








# ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION





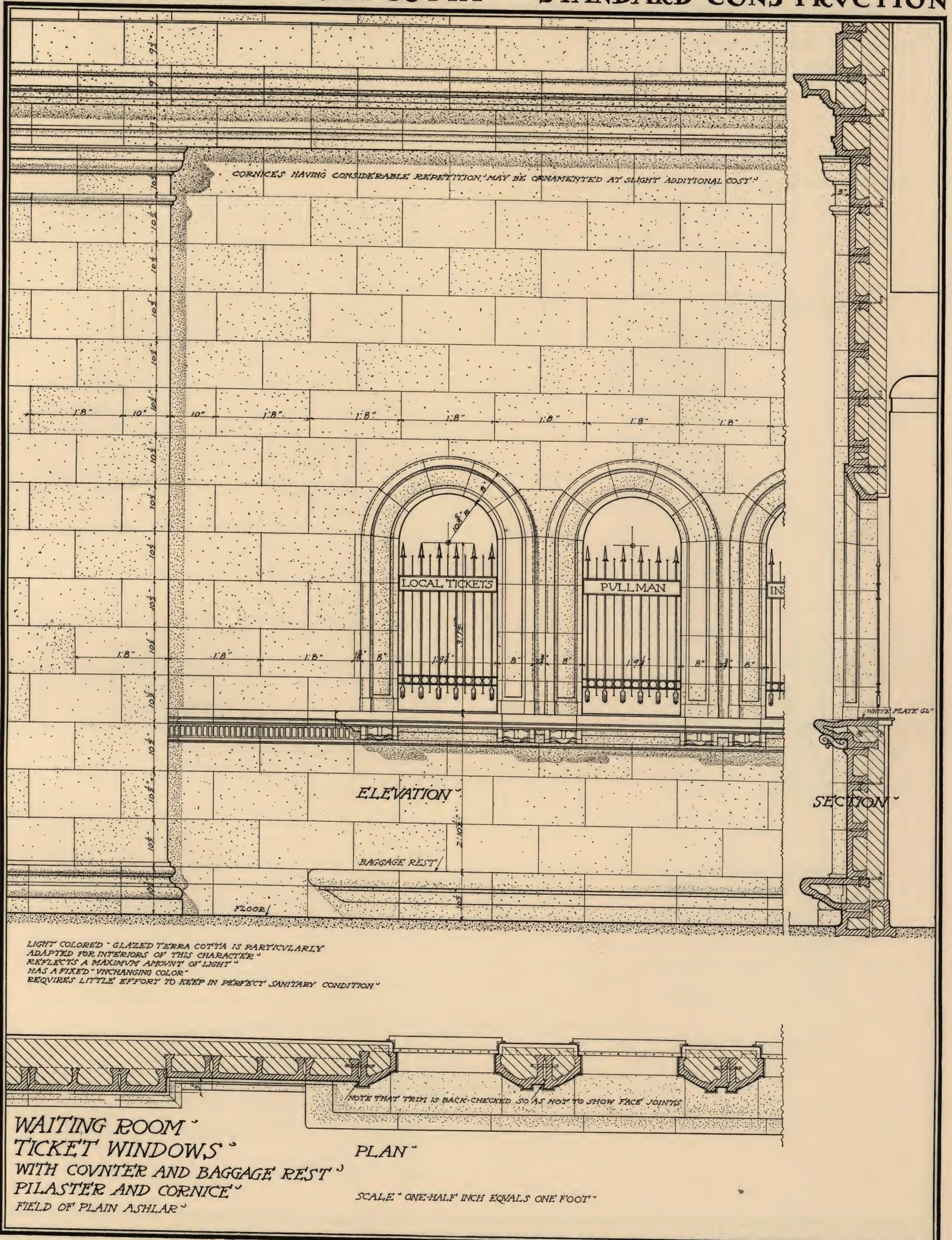
THE UNIVERSITY OF CHICAGO PRESS



CHICAGO, ILL., U.S.A.



# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

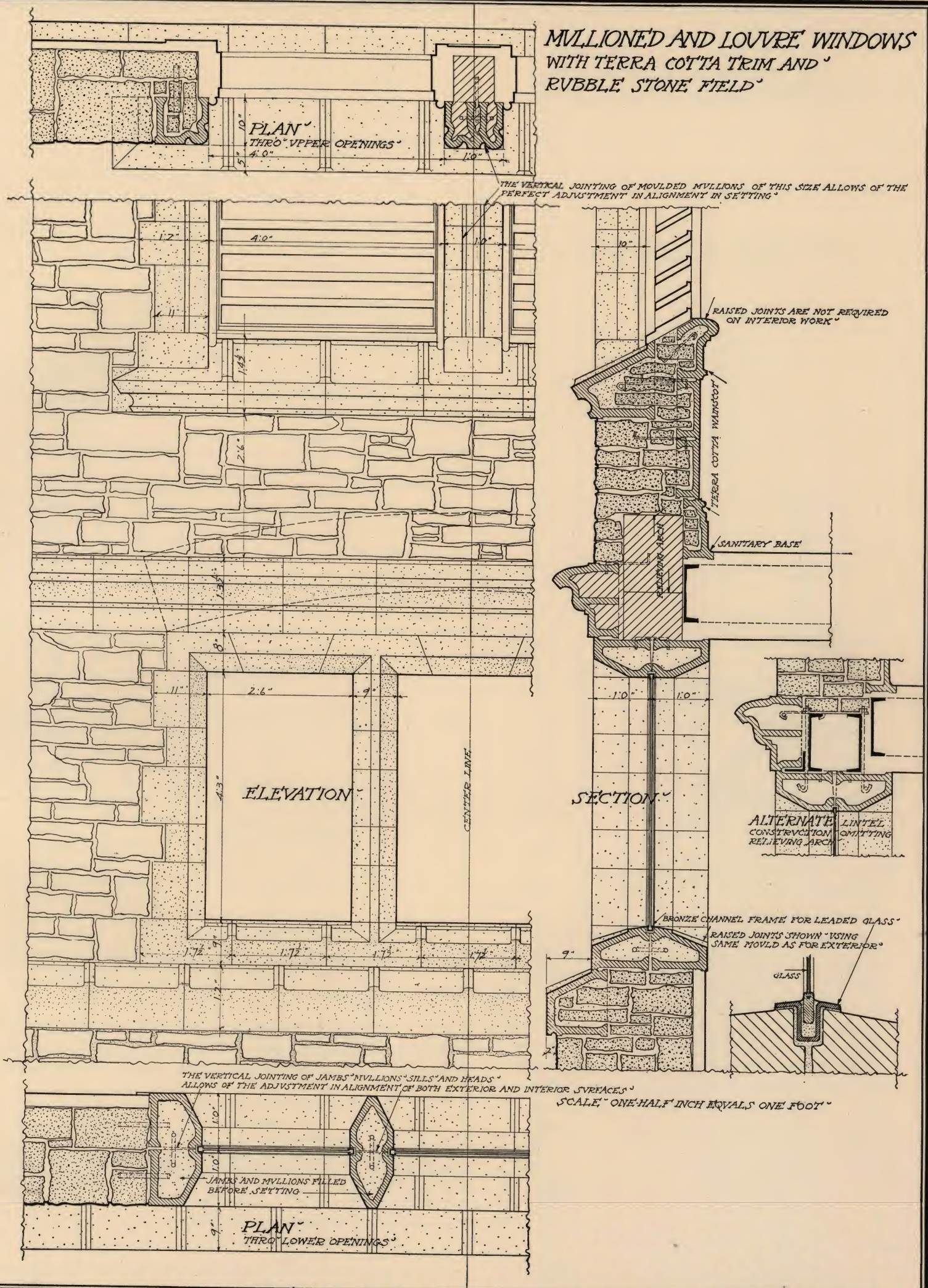








# ARCHITECTURAL TERRA COTTA • • • STANDARD CONSTRUCTION









**WINDOW**  
WITH MOULDED JAMB AND SILL  
WITH INTERIOR TERRA COTTA WAINSCOT

THE VERTICAL JOINTING OF MOULDED JAMBS (PARTLY CONCEALED BY BACK CHECKING) AS SHOWN PERMITS OF ADJUSTMENT IN ALIGNMENT IN SETTING

**PLAN**

**ELEVATION**

SILL EXTENDS INTO JAMB WITH SEATS AT "A" "B" AND "C" TO PREVENT LEAKAGE

**SECTION**

BRONZE CHANNEL FRAME IN GROOVE FOR LEADED GLASS TO PREVENT LEAKAGE SEE PLATE NO. 42

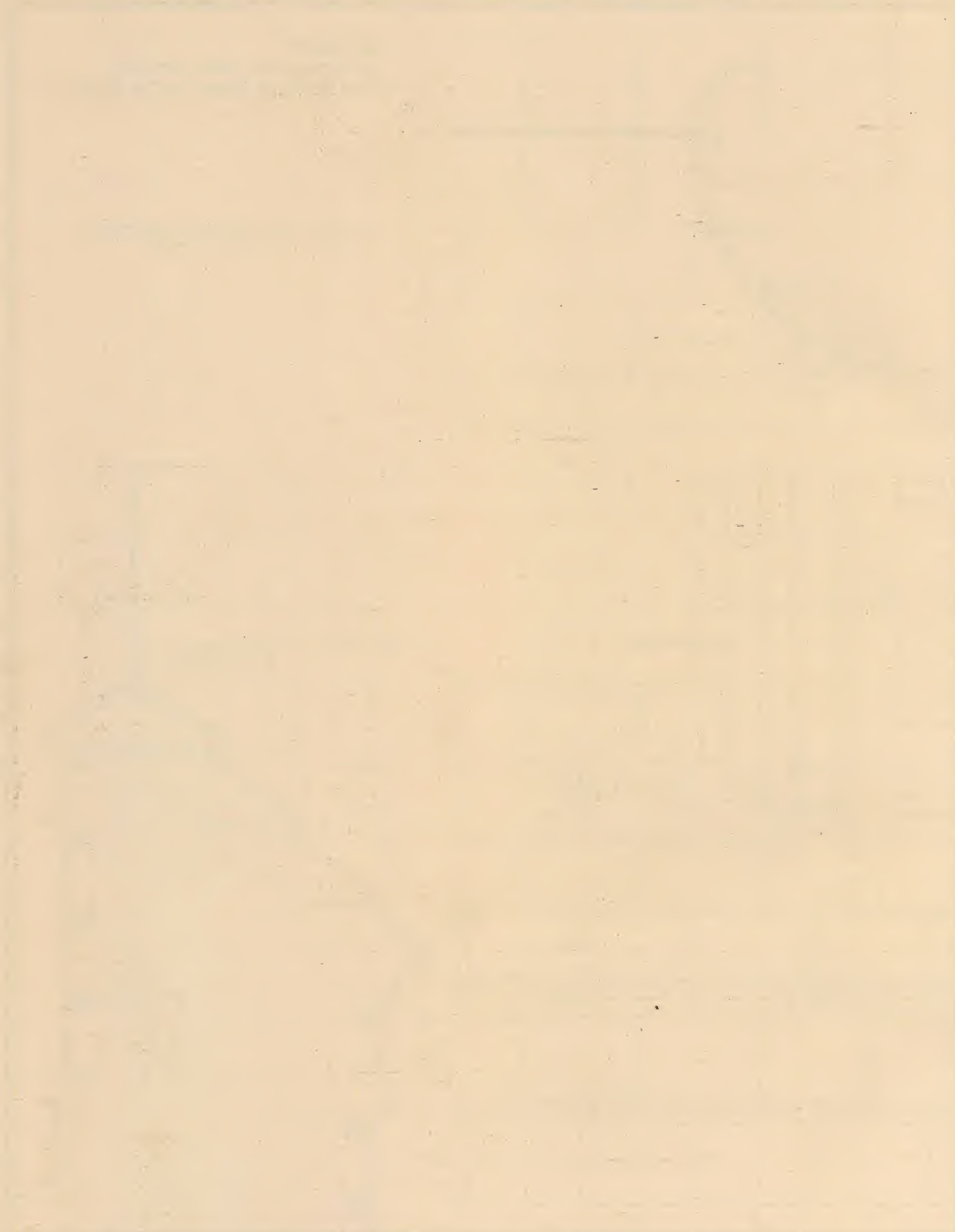
SILLS FILLED BEFORE SETTING

FACE OF WALL

SCALE "THREE QUARTERS OF AN INCH EQUALS ONE FOOT"



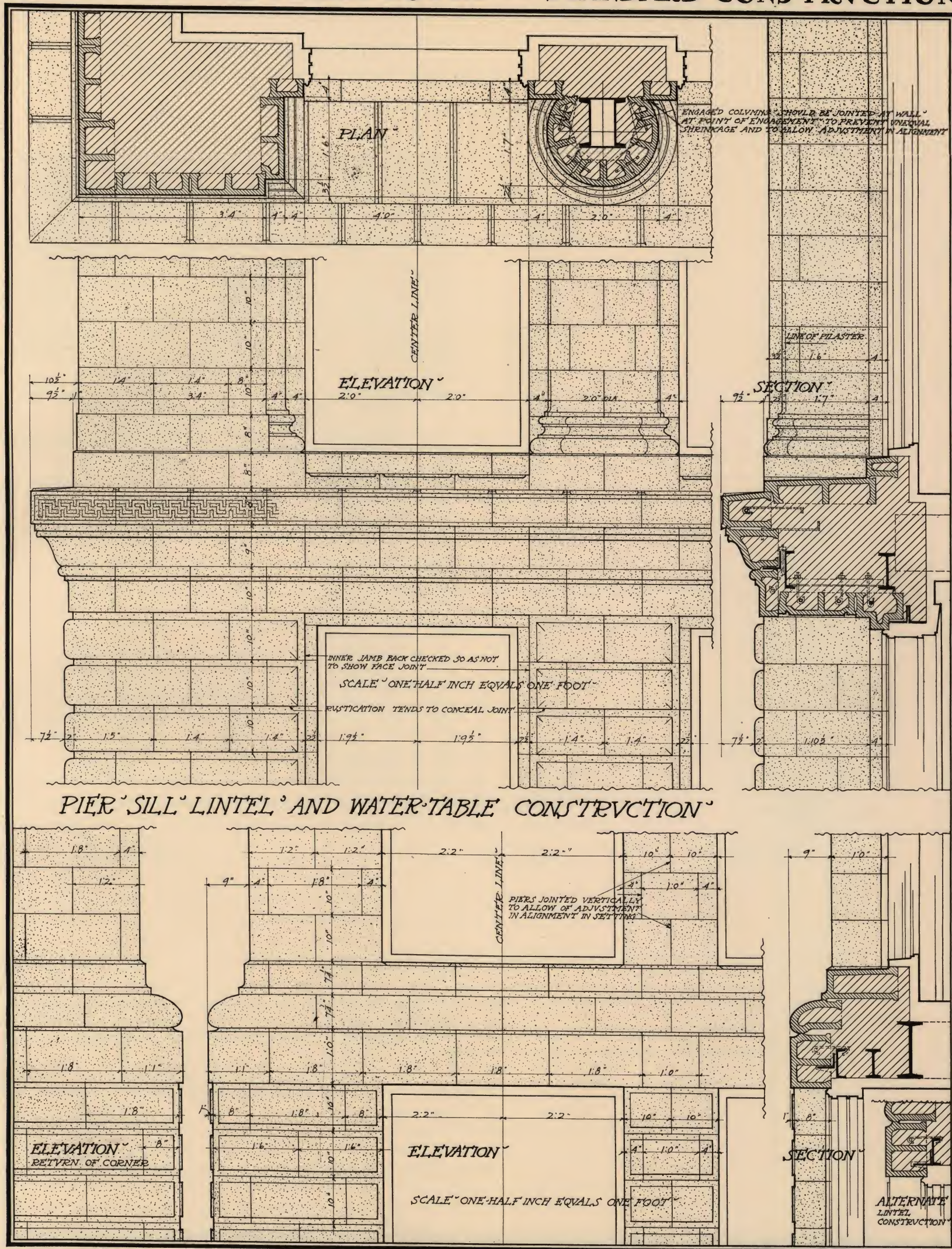
THE UNIVERSITY OF CHICAGO LIBRARY



UNIVERSITY OF CHICAGO LIBRARY



## ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION



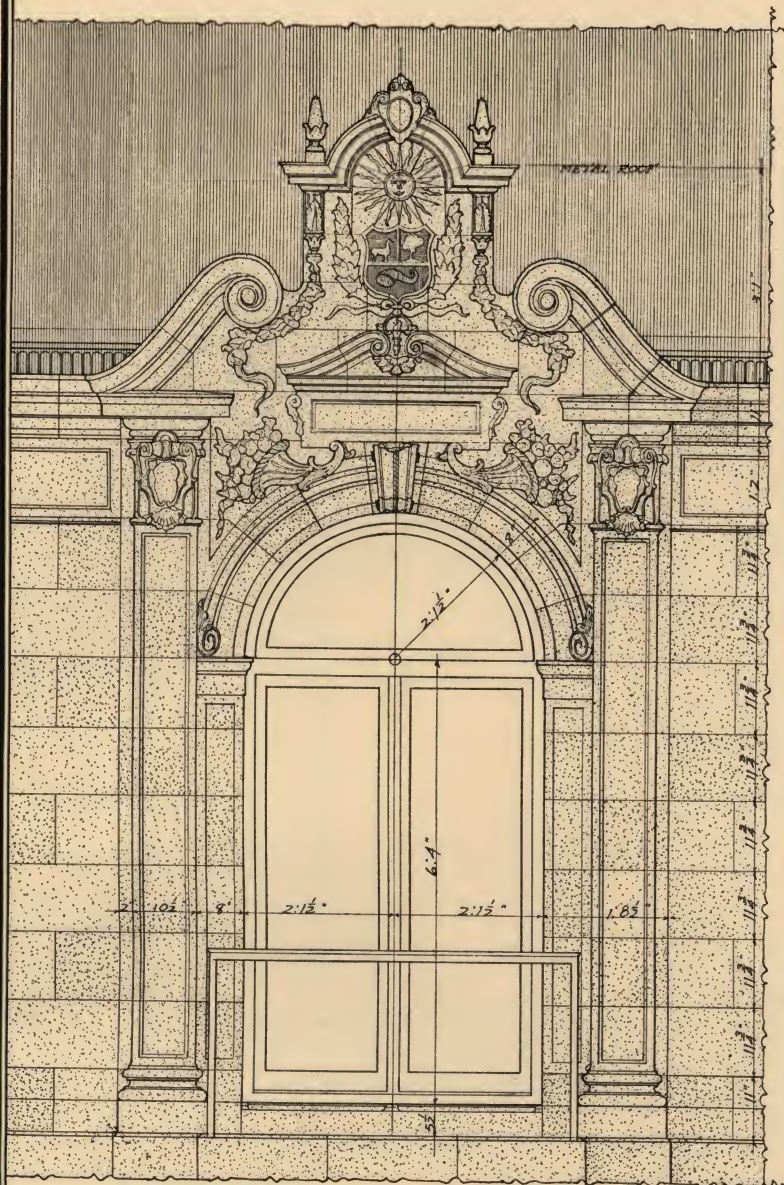




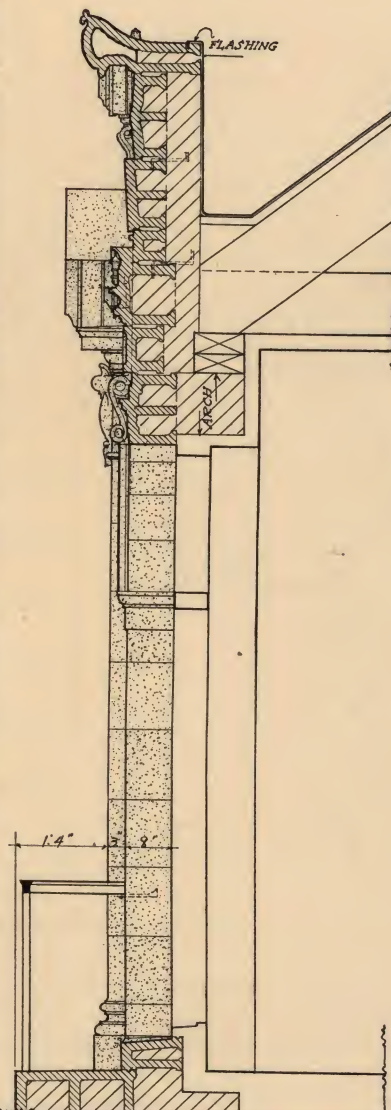


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

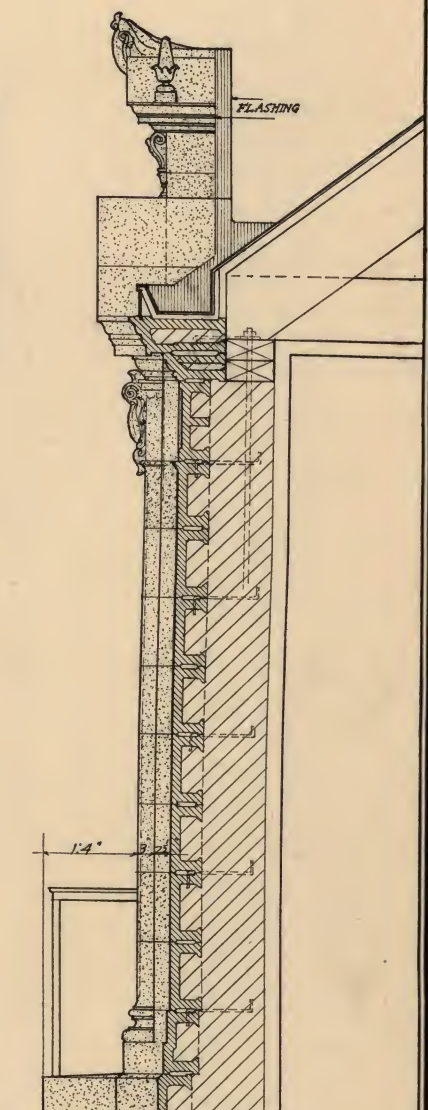
## ATTIC STORY WINDOW · WITH PILASTERS · ARCH · PEDIMENT · AND BALCONY ·



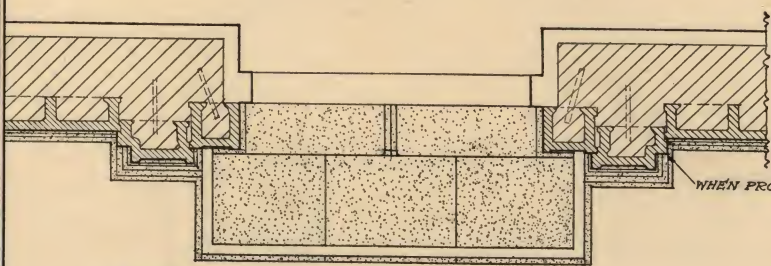
ELEVATION ·  
FRONT OF WINDOW ·



SECTION ·  
THRO' WINDOW ·



SECTION ·  
THRO' SIDE ·



PLAN ·  
THRO' WINDOW ·

WHEN PROJECTING ANGLES ARE 4° OR MORE · THEY SHOULD BE JOINTED SEPARATE · THUS ·

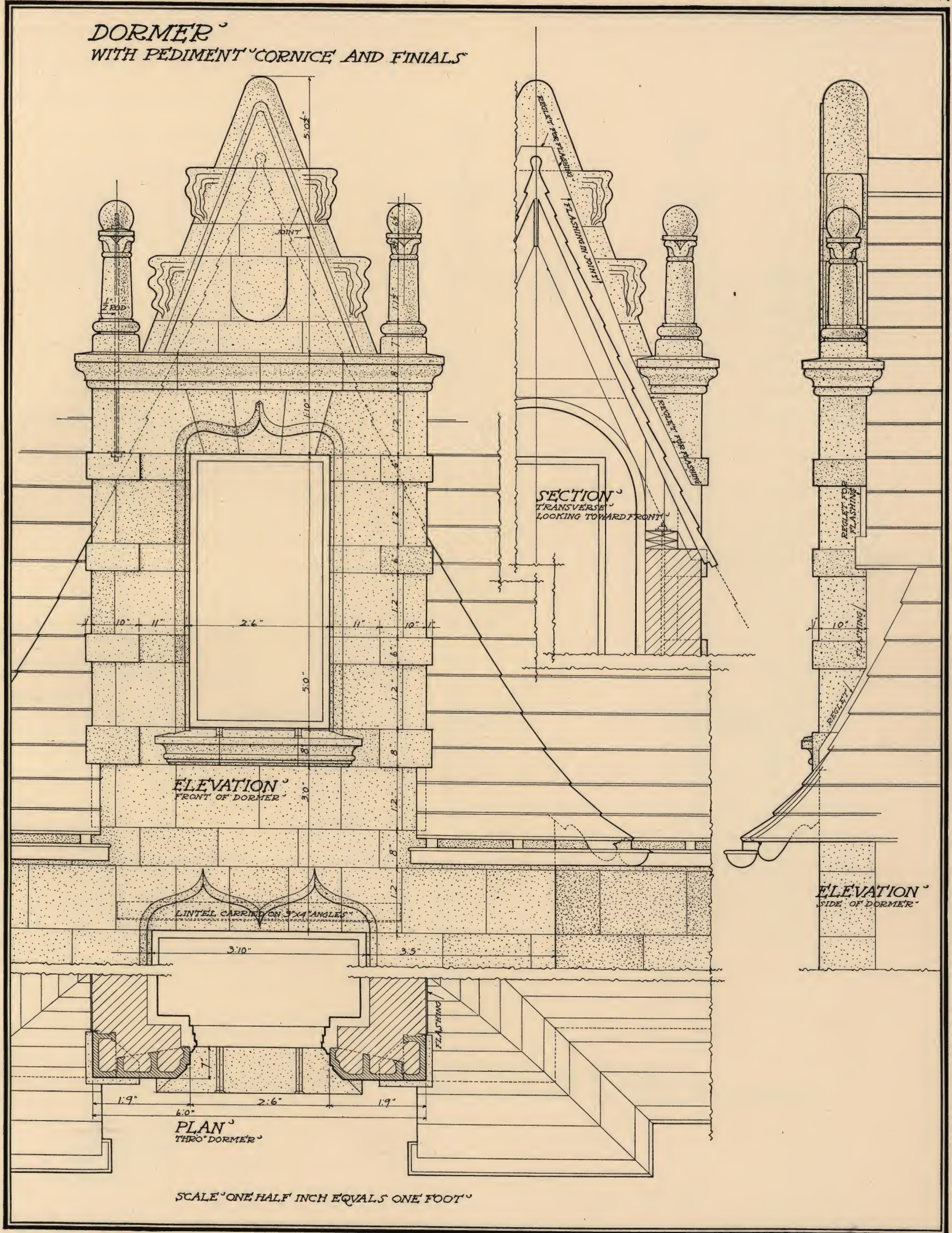
SCALE · THREE-EIGHTHS OF AN INCH EQUALS ONE FOOT ·







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

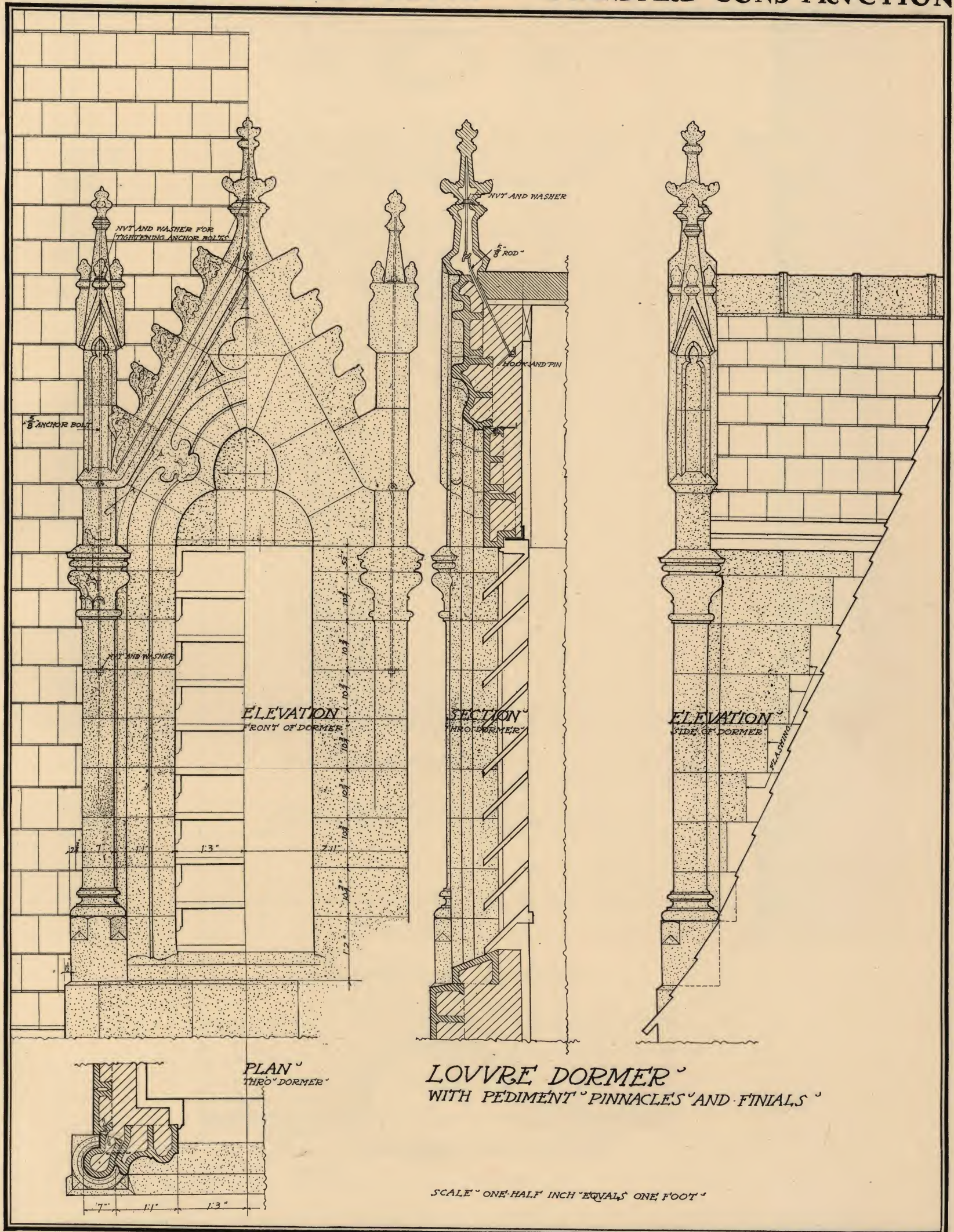








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









This architectural drawing illustrates a classical niche with moulded trim and cornice. The central feature is the **ELEVATION FRONT OF NICHE**, which shows a semi-circular archway set within a rectangular frame. Above the arch is a decorative cornice with a central diamond-shaped medallion and two circular motifs on either side. The wall is composed of rectangular blocks. To the left, the **ELEVATION SIDE OF NICHE SECTION THRO' WALL** shows the profile of the wall and the niche. To the right, the **SECTION THRO' NICHE** shows the internal structure of the arch and the wall. Below the main elevation is the **PLAN THRO' NICHE**, which shows the base of the niche and the arch. A scale bar indicates that **ONE HALF INCH EQUALS FOOT**. Various dimensions are provided for the different parts of the niche, including the height of the arch, the width of the opening, and the depth of the wall.

**ELEVATION**  
SIDE OF NICHE  
SECTION THRO' WALL

**ELEVATION**  
FRONT OF NICHE

**SECTION**  
THRO' NICHE

**SCALE: ONE HALF INCH EQUALS FOOT**

**NICHE**  
WITH MOULDED TRIM AND CORNICE

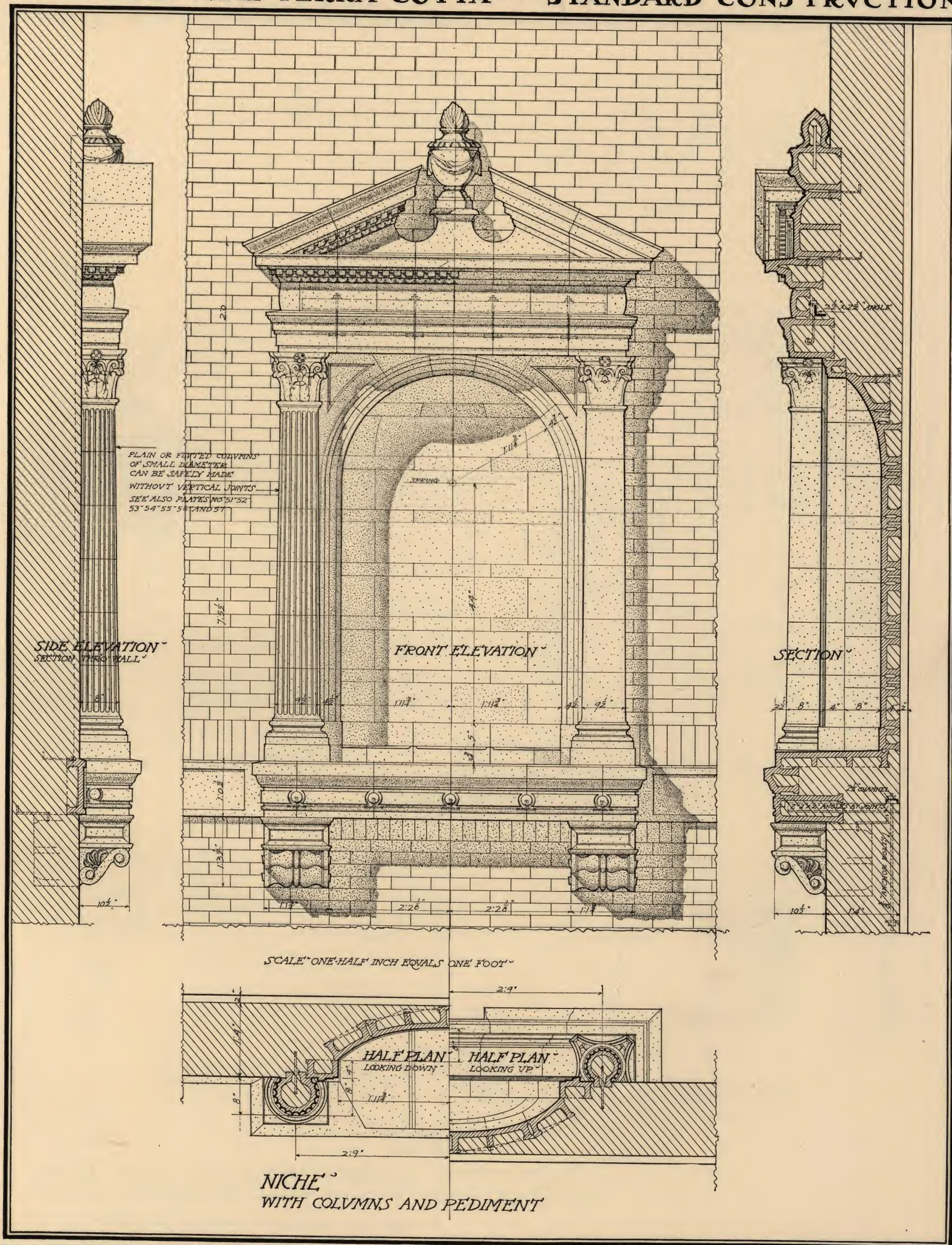
**PLAN**  
THRO' NICHE







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









PLAN  
THRO' WINDOWS AND PANEL  
ABOVE NICHE  
LOOKING DOWN

ELEVATION  
OF CANOPY AND FINIAL  
WINDOWS ETC

SECTION  
THRO' NICHE  
PEDESTAL AND  
FINIAL

SECTION  
THRO' WINDOWS  
SILLS AND LINTELS

PLAN  
THRO' WINDOWS AND NICHE  
LOOKING UP

ELEVATION  
OF PEDESTAL PANELS  
WINDOWS ETC

PLAN  
THRO' WINDOWS AND NICHE  
LOOKING DOWN

NICHE WITH PEDESTAL CANOPY AND FINIAL  
WINDOWS WITH MOVL'D JAMBS MVLIONS SILLS AND LINTELS

SCALE THREE-EIGHTHS OF AN INCH EQUALS ONE FOOT







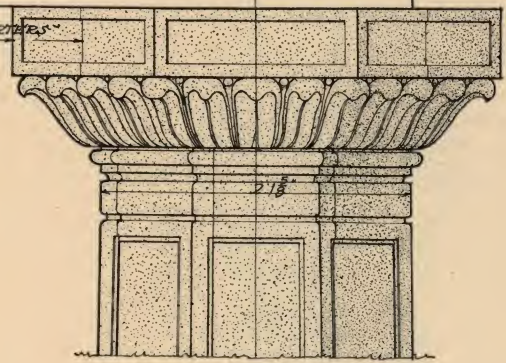
# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## OCTAGON COLUMN<sup>3</sup> WITH CAPITAL AND BASE<sup>3</sup>

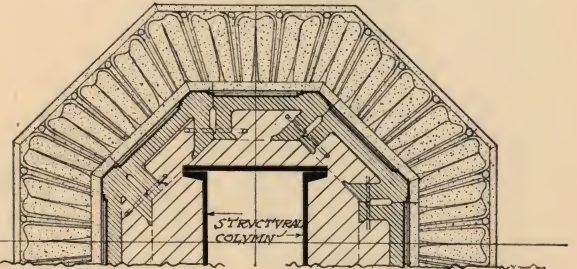
SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT<sup>3</sup>

ABACUS JOINED INTO QUARTERS<sup>3</sup>

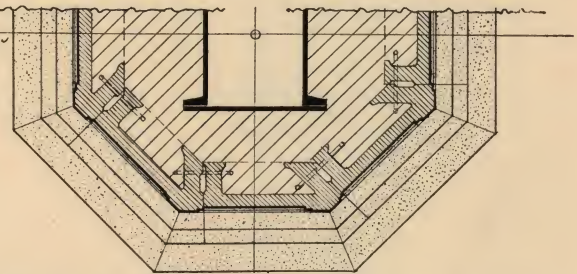
ELEVATION<sup>3</sup>  
CAPITAL OF COLUMN<sup>3</sup>



PLAN<sup>3</sup> THRO' NECK<sup>3</sup>  
LOOKING UP<sup>3</sup>

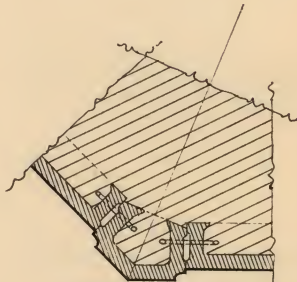
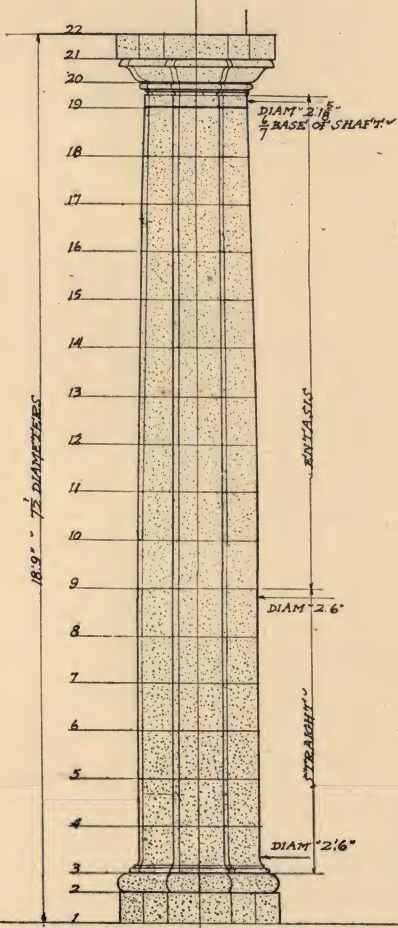


PLAN<sup>3</sup> THRO' BOTTOM<sup>3</sup>  
LOOKING DOWN<sup>3</sup>



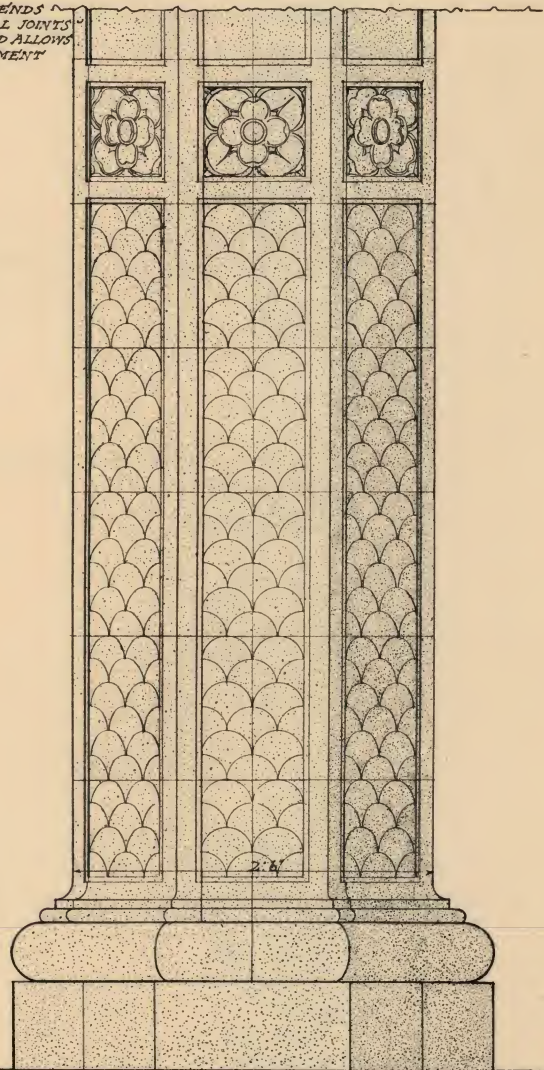
DIAGRAM<sup>3</sup> OF METHOD FOR OBTAINING ENTASIS OF SHAFT<sup>3</sup>  
LAY OUT ACCURATELY TO FULL SIZE OF COLUMN<sup>3</sup>  
A·B·C AND D CAN THEN BE ACCURATELY MEASURED<sup>3</sup>  
GIVING THE DIAMETERS AT 11 13 15 AND 17<sup>3</sup>

THE SHAFT AS JOINED TENDS<sup>3</sup>  
TO CONCEAL THE VERTICAL JOINTS<sup>3</sup>  
PERMITS CLOSE FITTING AND ALLOWS<sup>3</sup>  
OF ADJUSTMENT IN ALIGNMENT<sup>3</sup>  
IN SETTING<sup>3</sup>



THE MOULDED CORNERS<sup>3</sup>  
OF LARGE COLUMNS<sup>3</sup>  
SHOULD BE JOINTED<sup>3</sup>  
SEPARATE<sup>3</sup>

ELEVATION<sup>3</sup>  
BASE OF COLUMN<sup>3</sup>



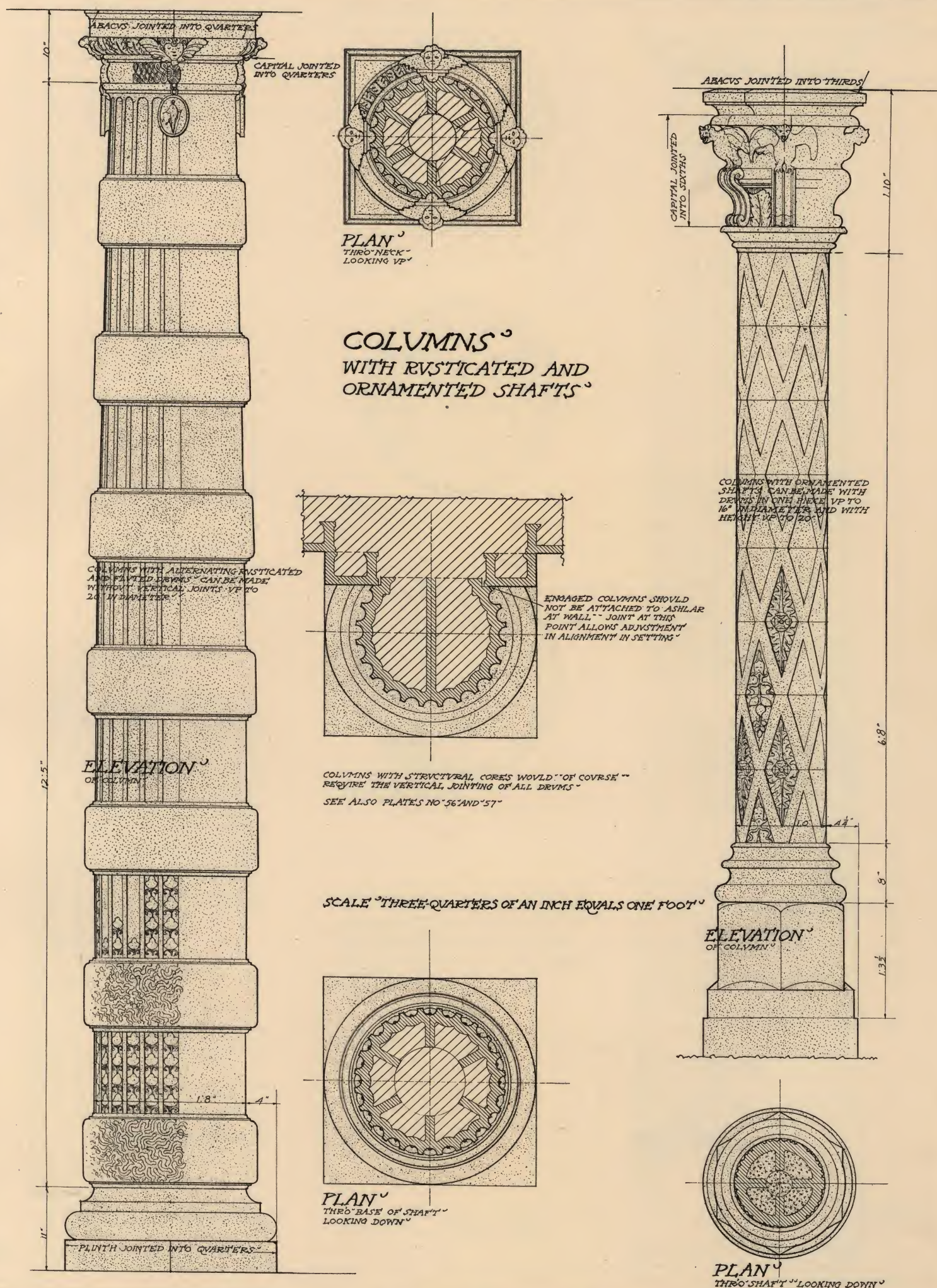
SCALE · ONE-QUARTER OF AN INCH EQUALS ONE FOOT<sup>3</sup>



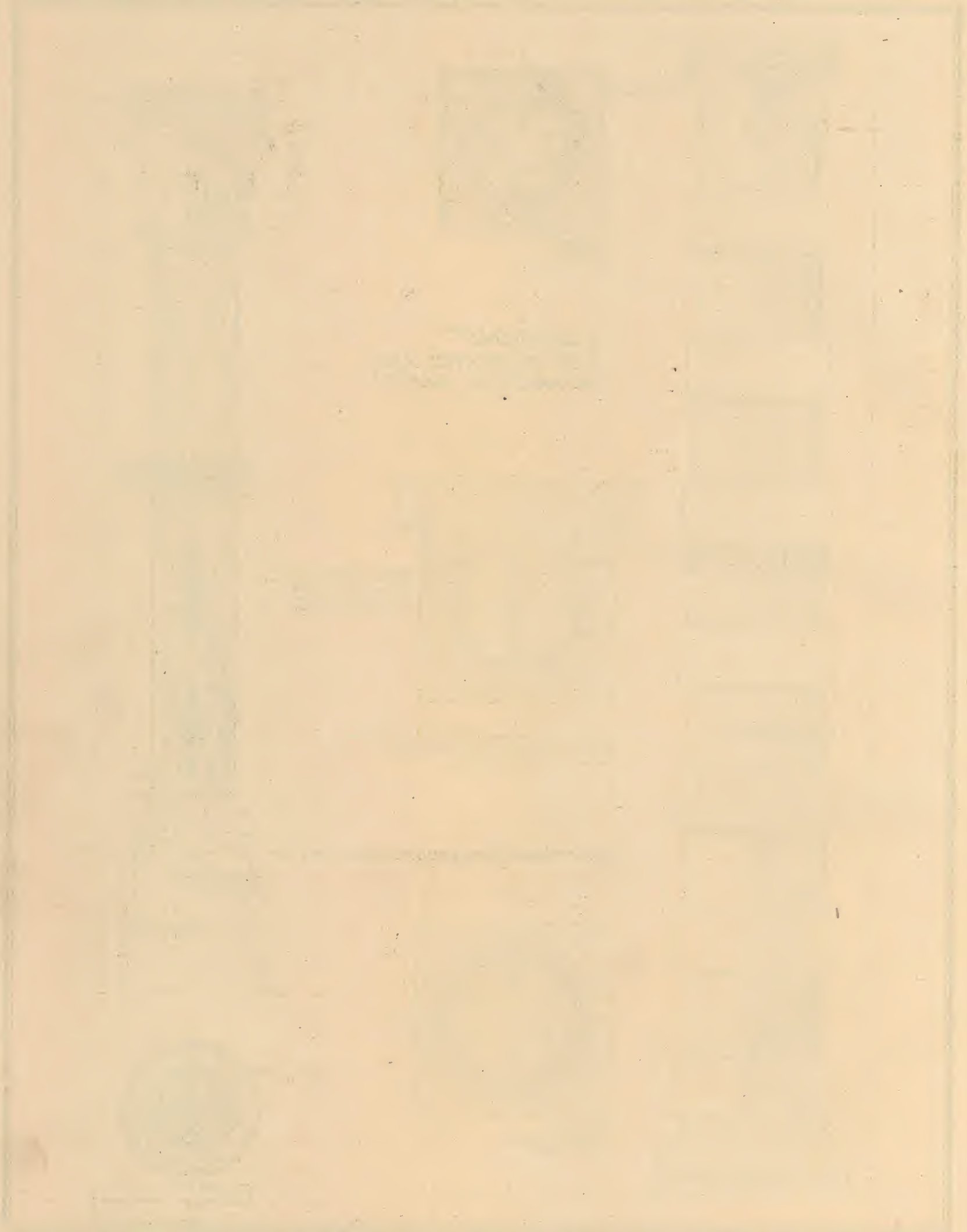




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

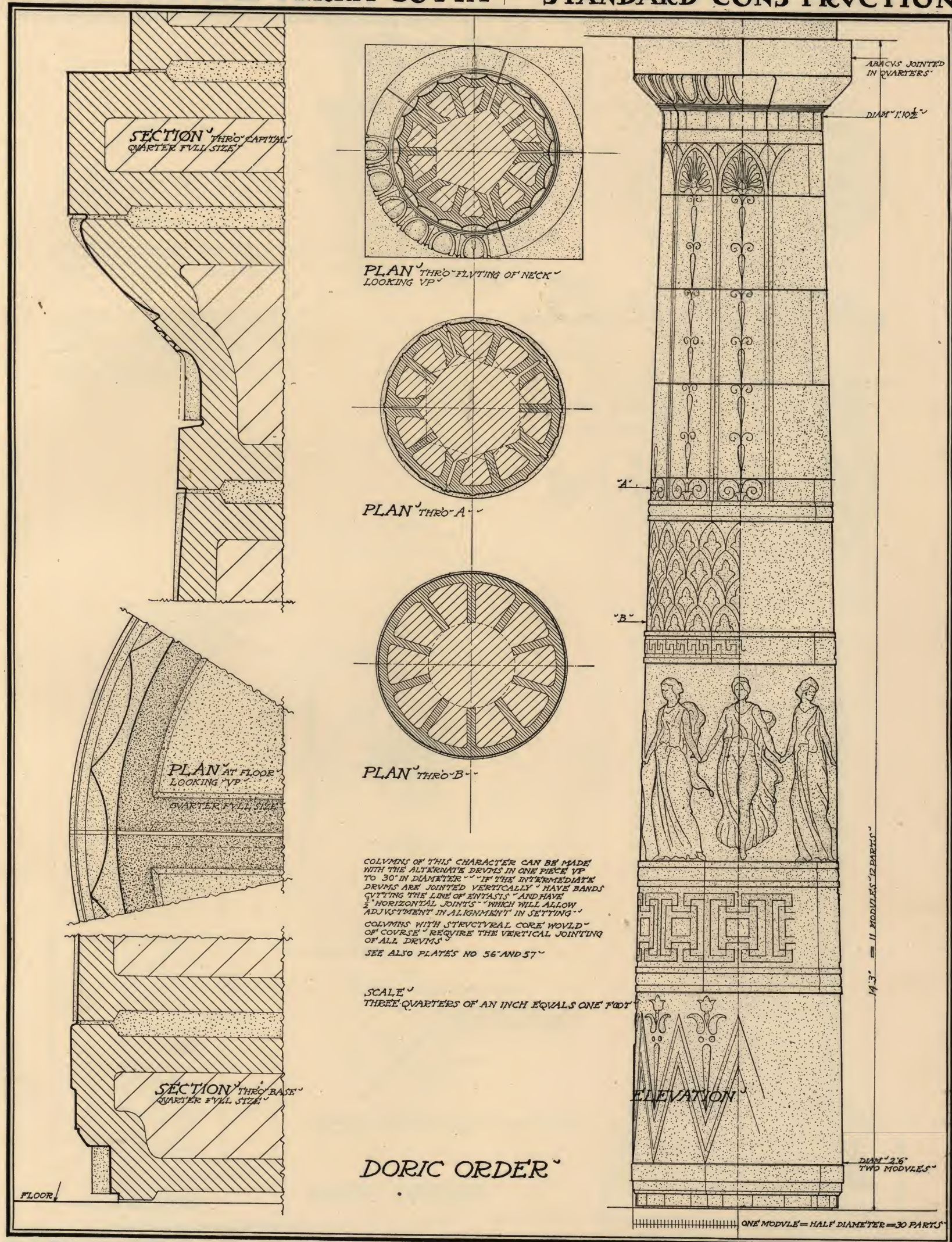




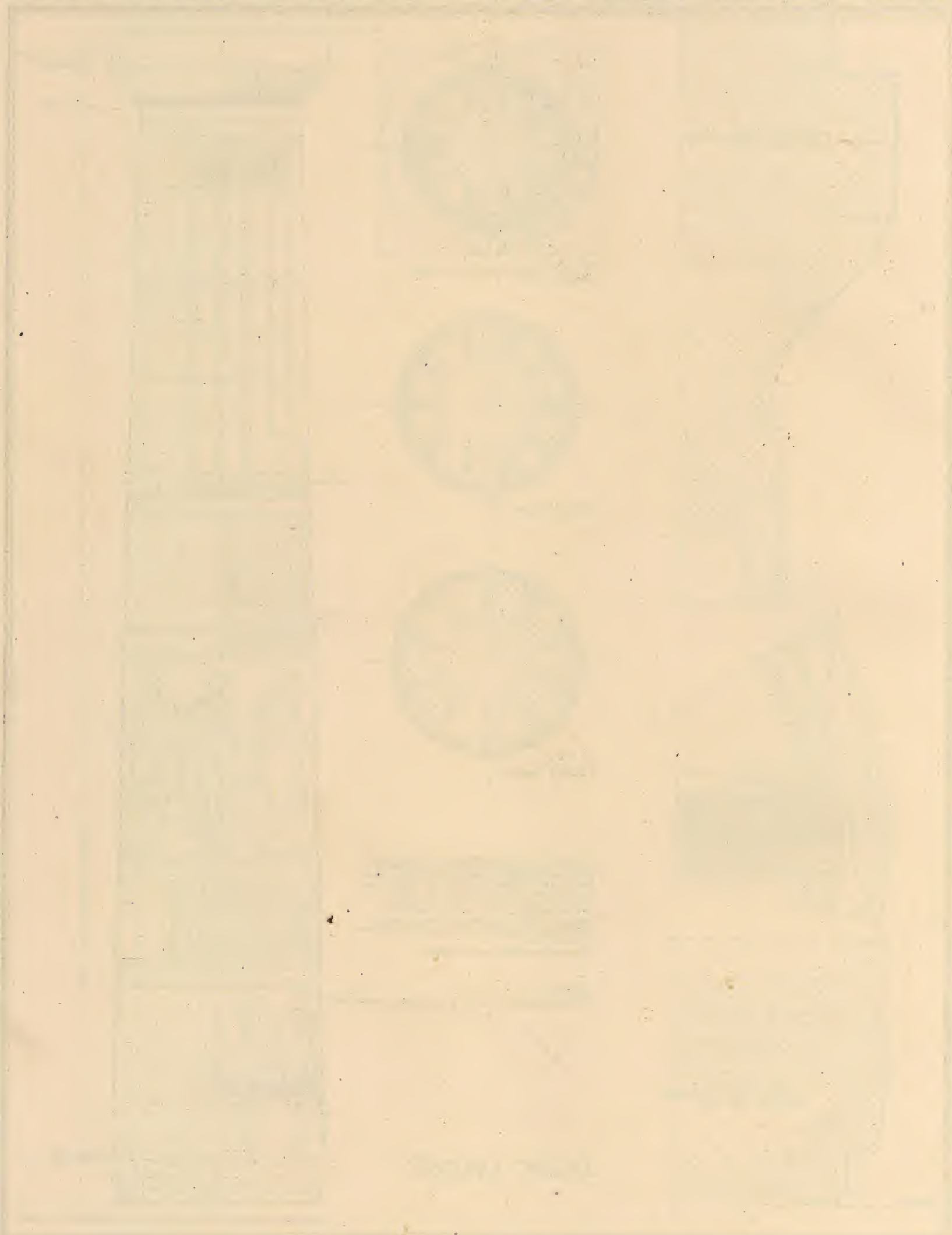




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









**DIAGRAM OF METHOD FOR OBTAINING ENTASIS OF SHAFT**  
 LAY OUT ACCURATELY TO FULL SIZE OF COLUMN  
 A B C D AND E CAN THEN BE ACCURATELY MEASURED  
 GIVING THE DIAMETERS AT 9" 11" 13" 15" 17" AND 19"

**SECTION THRO' CAPITAL**  
**ELEVATION SIDE OF CAPITAL**  
**PLAN AT NECK LOOKING UP**  
**ELEVATION FRONT OF CAPITAL**

COLUMNS OF THIS CHARACTER CAN BE MADE WITH DRUMS  
 IN ONE PIECE VP TO 16" IN DIAMETER AND IN HEIGHT  
 VP TO 20" THE HEIGHT OF DRUMS WOULD GENERALLY  
 BE GOVERNED BY THE PROPER JOINTING OF COLUMN WITH  
 ADJOINING WORK AND FOR APPEARANCE  
 COLUMNS WITH STRUCTURAL CORES WOULD OF COURSE  
 REQUIRE THE VERTICAL JOINTING OF DRUMS  
 SEE ALSO PLATES NO 36 AND 37

**PLAN AT BASE LOOKING DOWN**

**VOLUTE QUARTER-FULL SIZE DIAGRAM**

**COMPASS CENTERS HALF-FULL SIZE DIAGRAM FOR LAYING OUT VOLUTE ABOVE**

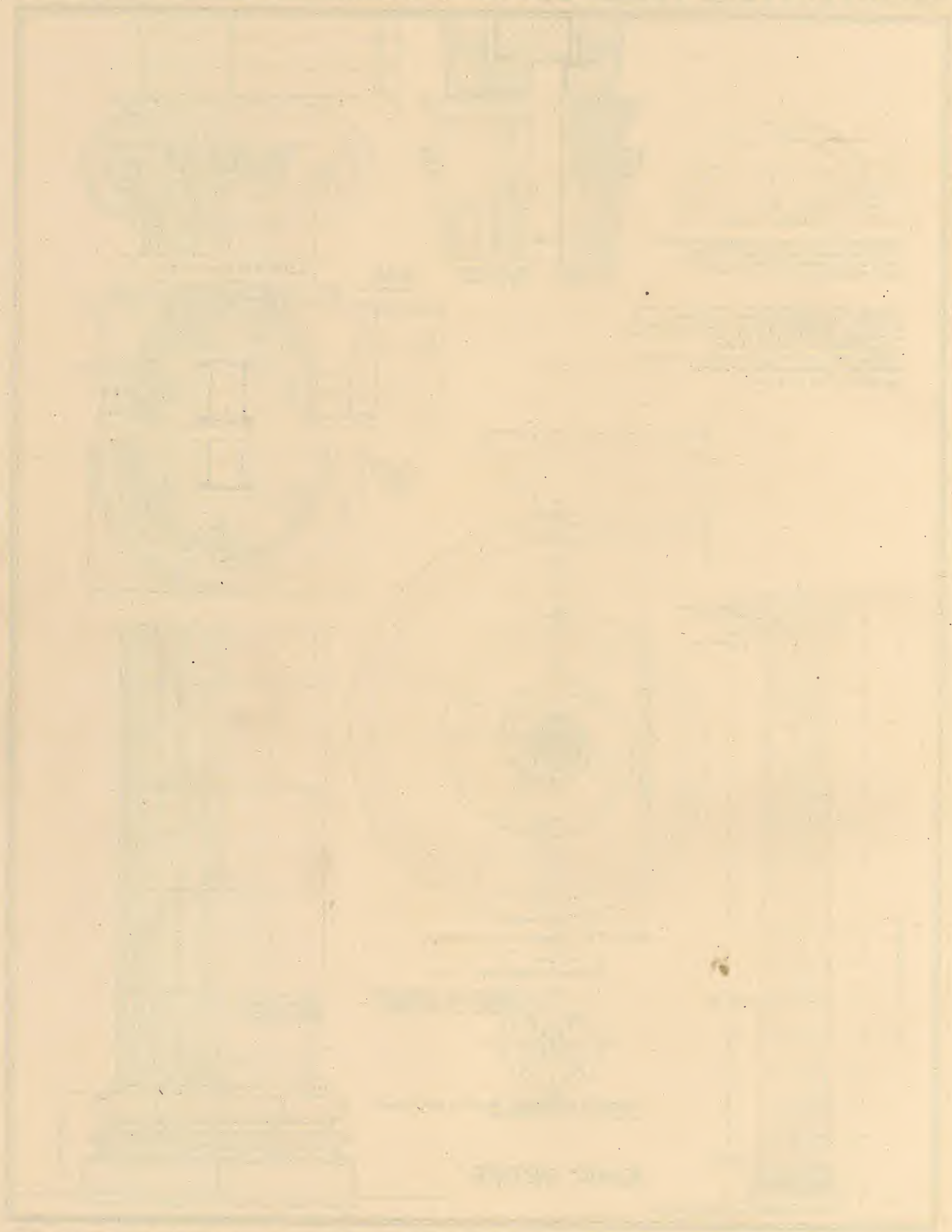
**IONIC ORDER**

**ELEVATION BASE OF COLUMN**

SCALE "ONE-QUARTER INCH EQUALS ONE FOOT"

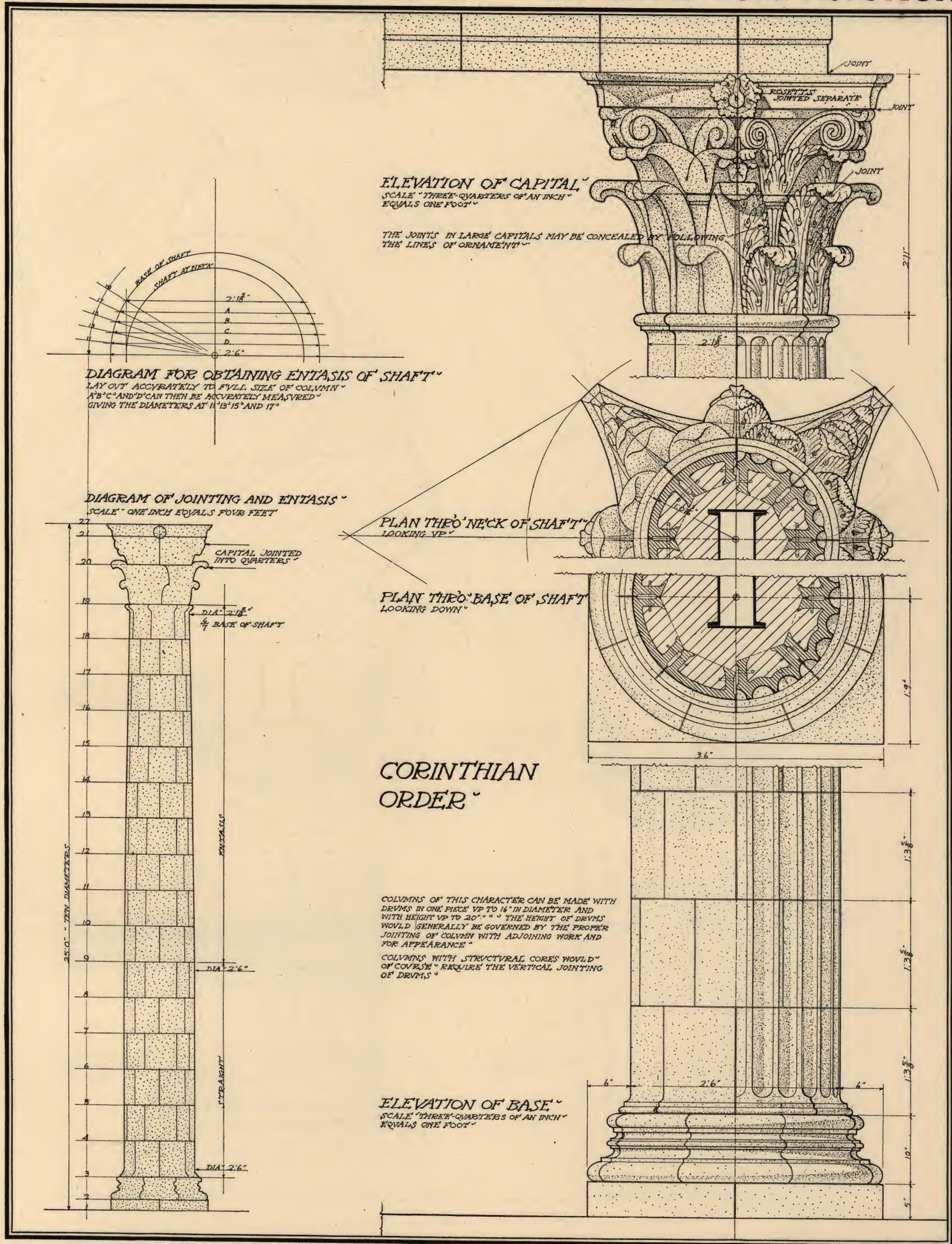
SCALE "THREE-QUARTERS OF AN INCH EQUALS ONE FOOT"



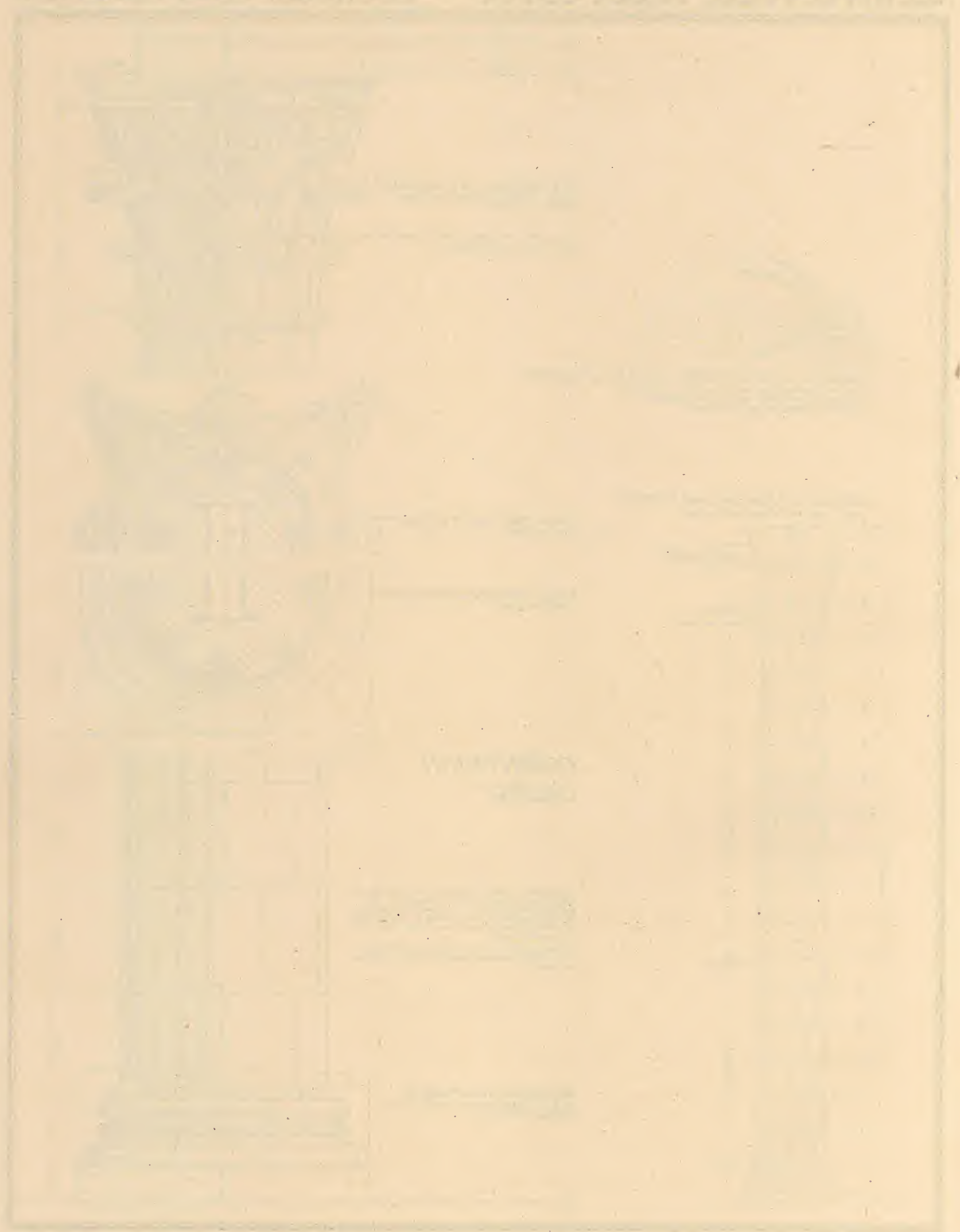




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

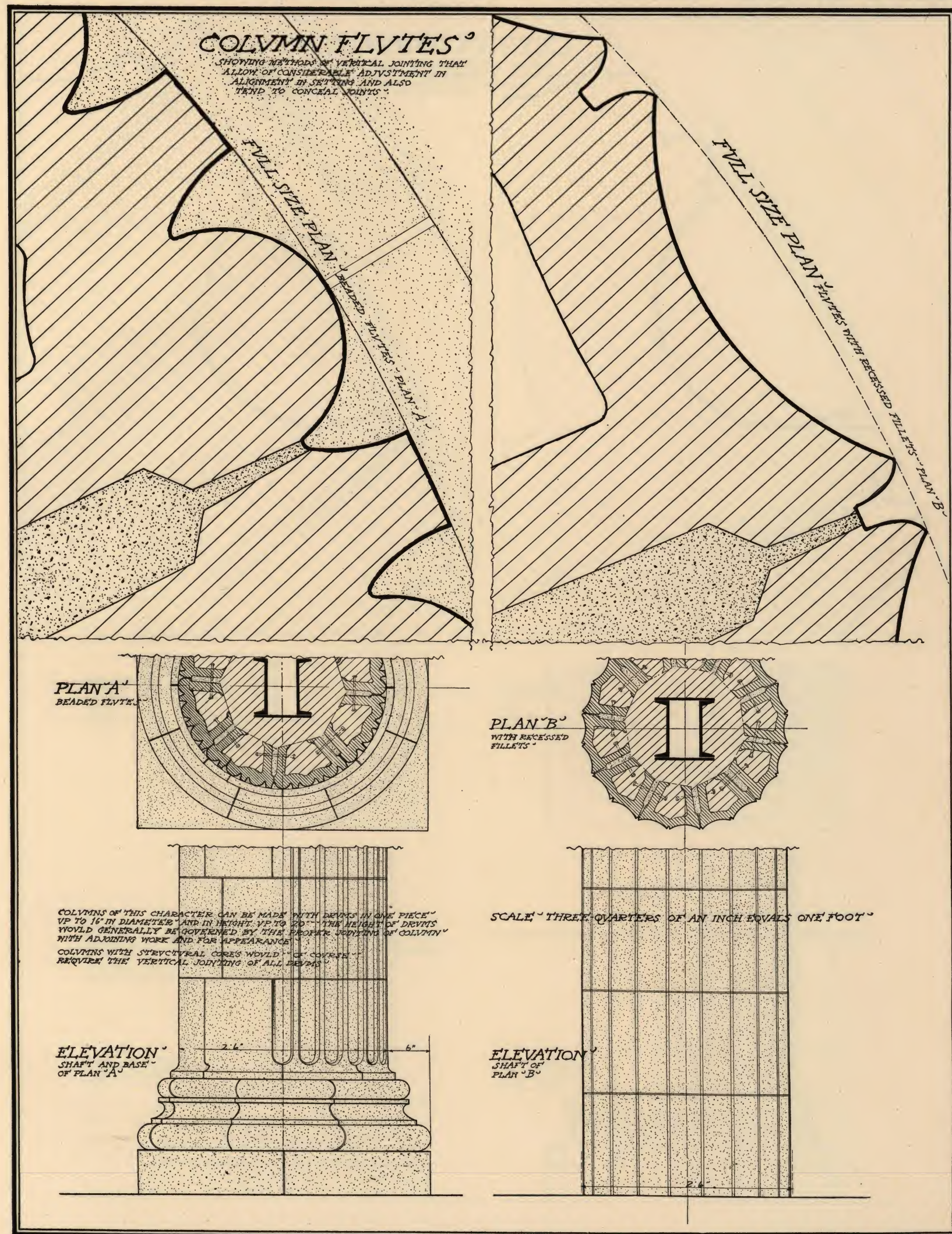








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

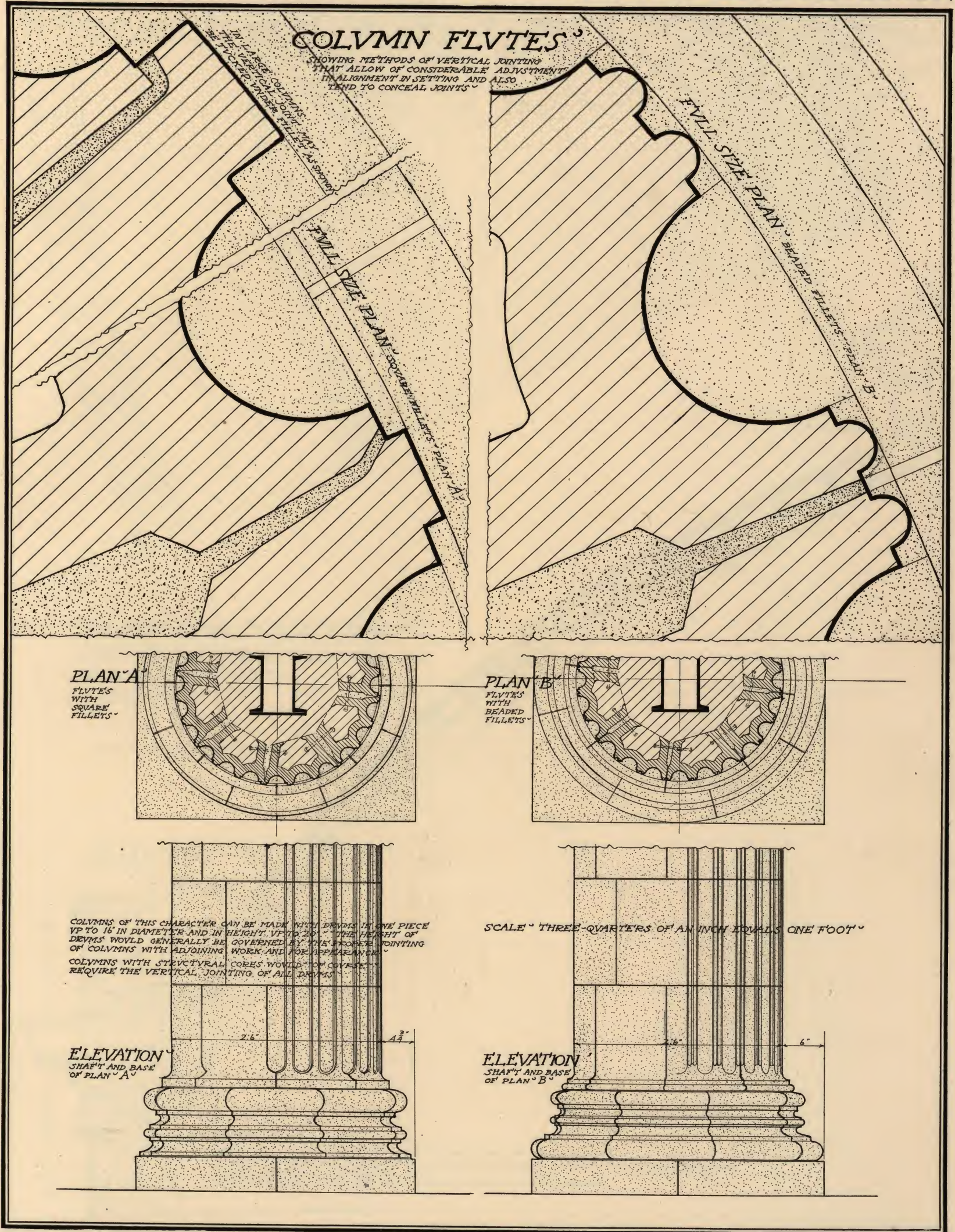








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION









SCALE ONE-HALF INCH EQUALS ONE FOOT

SECTION THRO' DOME  
ON CENTER LINE A-A

SLIGHT WASH SO AS NOT TO  
FORM POCKET FOR WATER

COPPER;

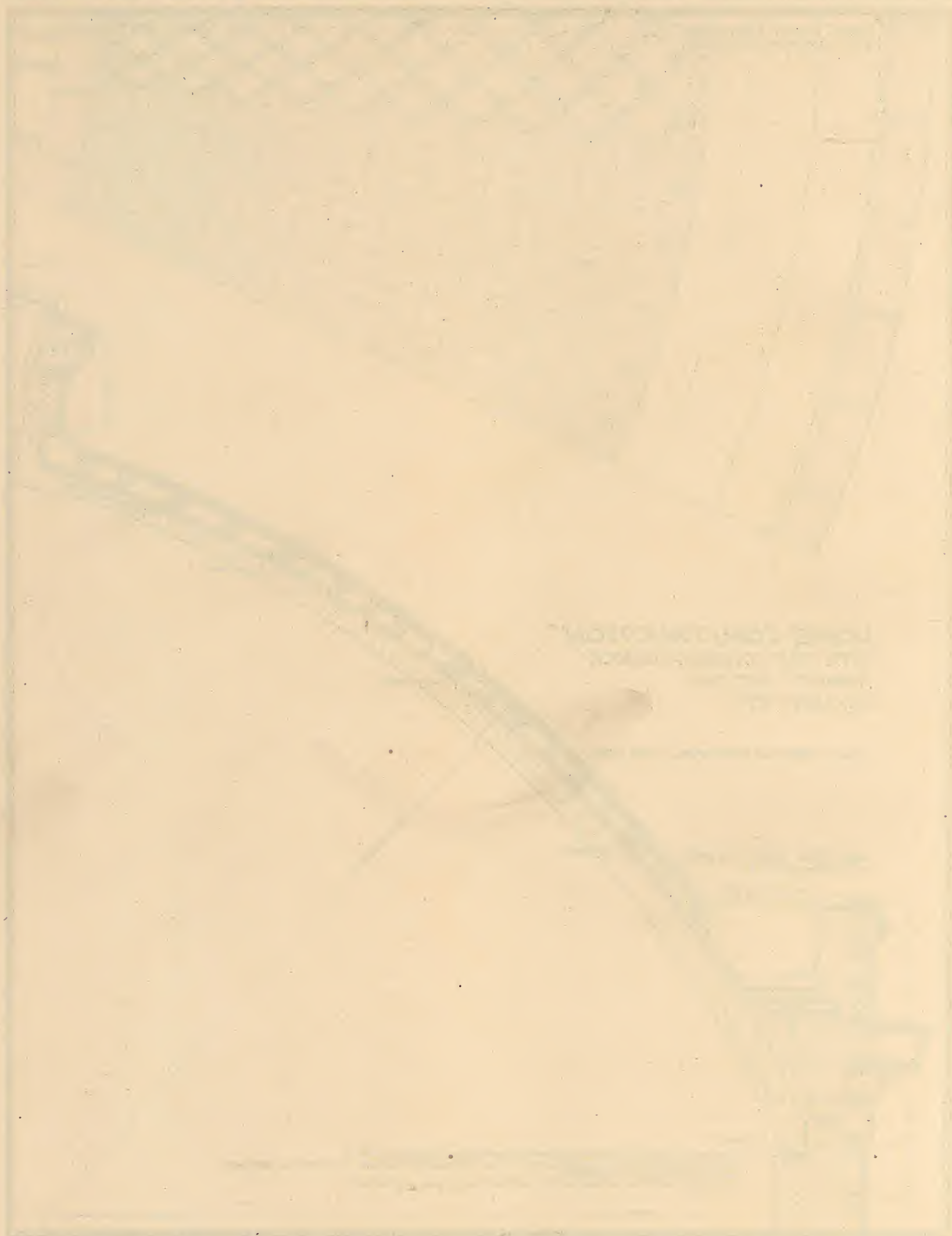
DAMP PROOFING

LEADER

THIS PLATE COVERS ONLY THE CONSTRUCTION AND JOINING OF TERRA COTTA QUESTIONS OF ACOUSTICS, CONDENSATION OR THE ENGINEERING PROBLEMS OF REINFORCED CONCRETE ARE NOT ESPECIALLY CONSIDERED THE TERRA COTTA CAN BE MADE TO SUIT ANY SUCH PARTICULAR REQUIREMENT

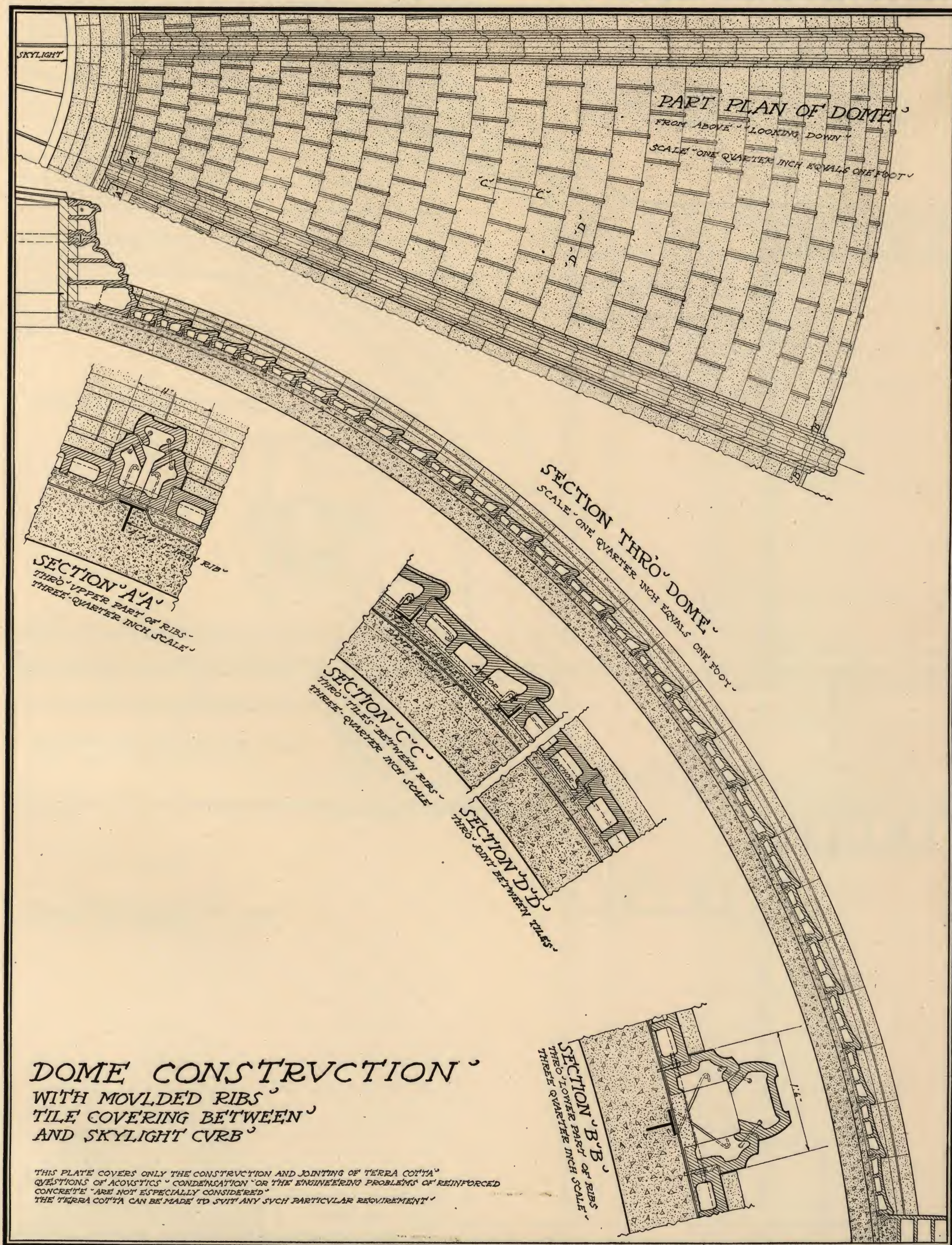
RADIVS 21'10"







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION







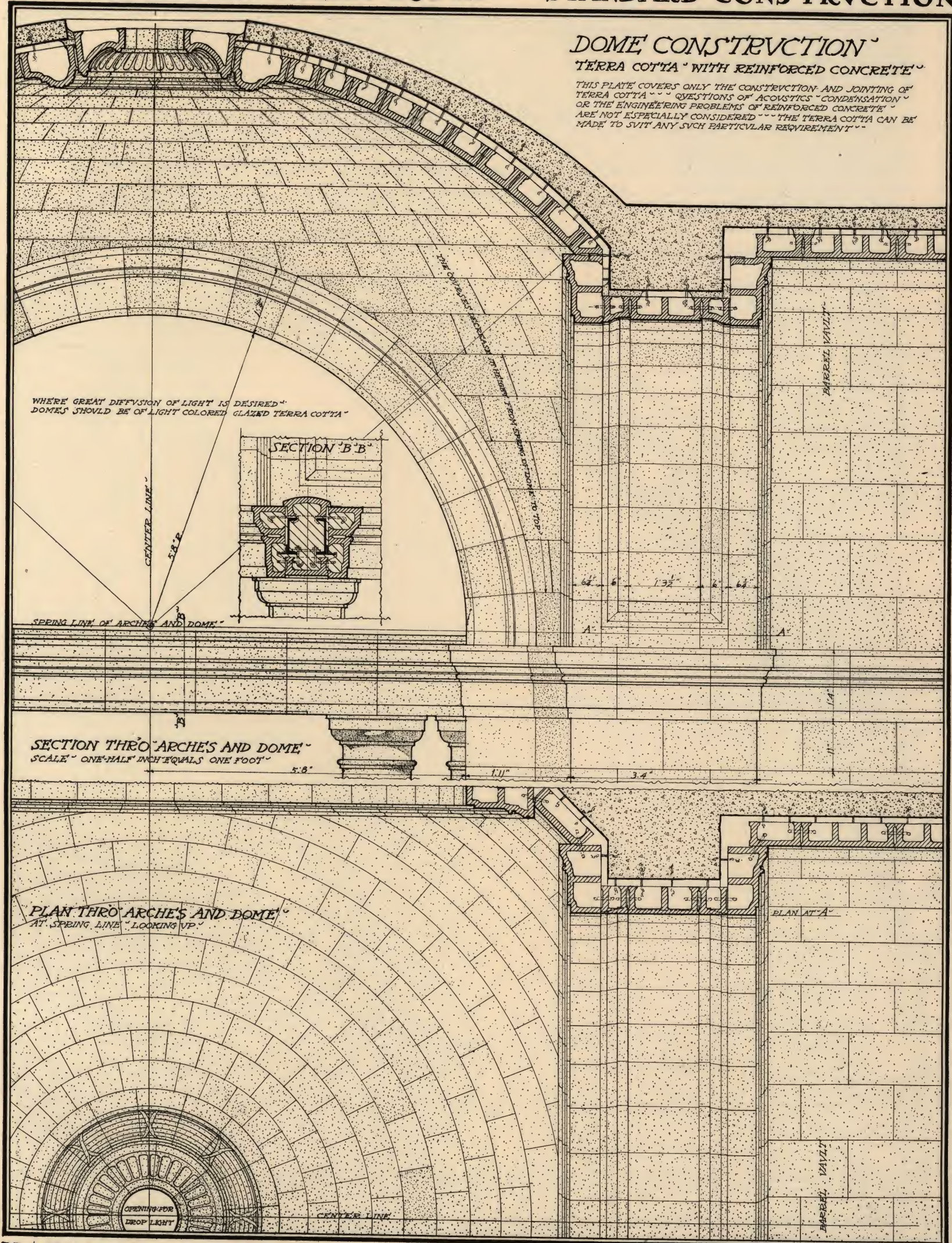


# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

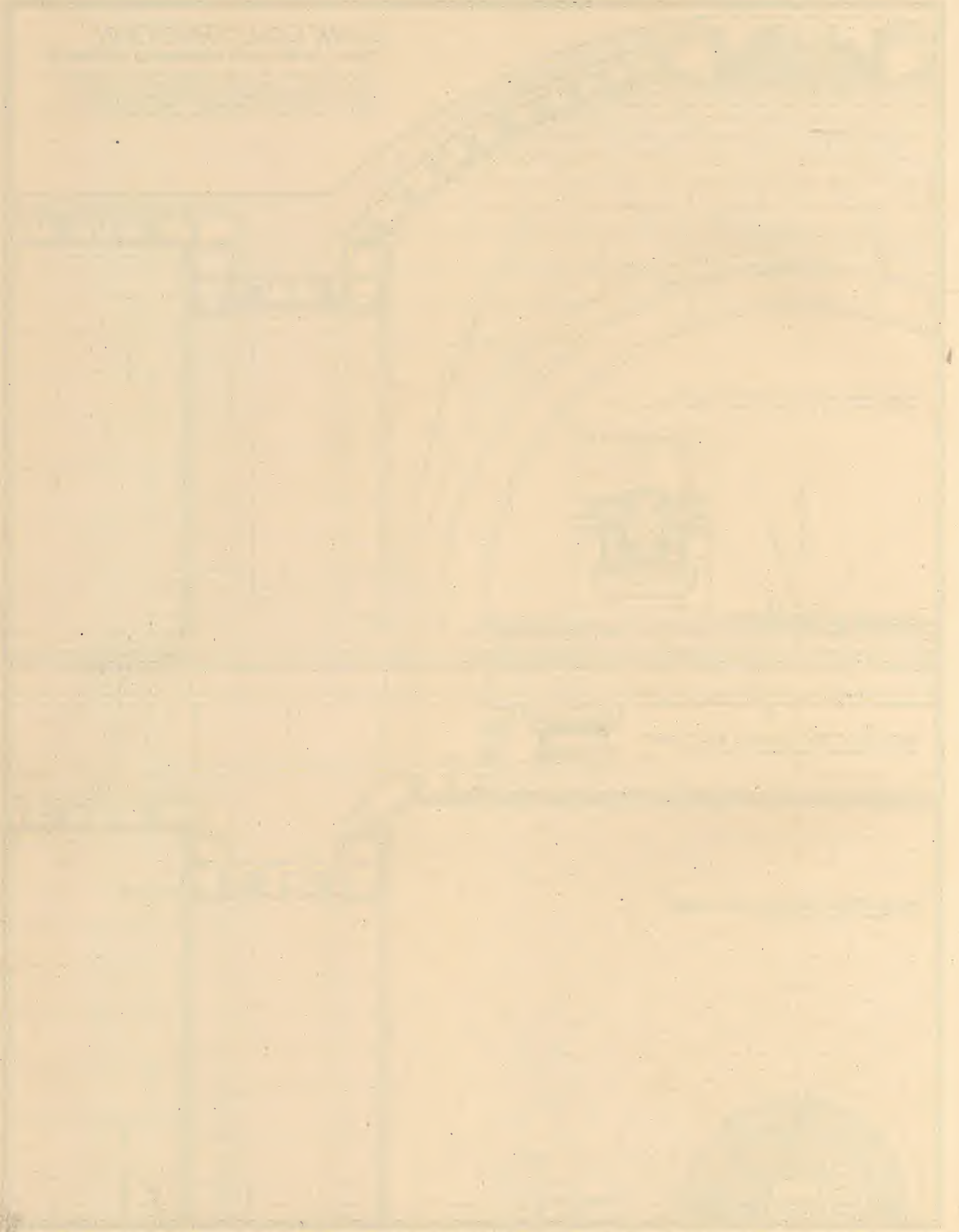
## DOME CONSTRUCTION

### TERRA COTTA WITH REINFORCED CONCRETE

THIS PLATE COVERS ONLY THE CONSTRUCTION AND JOINTING OF TERRA COTTA. QUESTIONS OF ACOUSTICS, CONDENSATION, OR THE ENGINEERING PROBLEMS OF REINFORCED CONCRETE ARE NOT ESPECIALLY CONSIDERED. THE TERRA COTTA CAN BE MADE TO SUIT ANY SUCH PARTICULAR REQUIREMENT.









**PART PLAN** LOOKING UP  
**CENTER LINE**

**COFFERED APSIDAL DOME WITH CONCRETE BACKING**  
**WITH CEILING LIGHT**  
THIS PLATE COVERS ONLY THE CONSTRUCTION AND JOINTING OF TERRA COTTA...  
QUESTIONS OF ACOUSTICS OR CONDENSATION OR THE ENGINEERING PROBLEMS OF REINFORCED CONCRETE ARE NOT ESPECIALLY CONSIDERED.  
THE TERRA COTTA CAN BE MADE TO SUIT ANY SUCH PARTICULAR REQUIREMENT.

WALL TO OUTER DOME AND SKYLIGHT  
CEILING LIGHT BLOCKED UP FOR VENTILATION

SCALE THREE-QUARTERS OF AN INCH EQUALS ONE FOOT

"PART PLAN"  
TOP OF CORNICE AT "X"  
LOOKING DOWN

DRAIN HOLES  
ELECTRIC LAMPS  
ELECTRIC CONDUIT

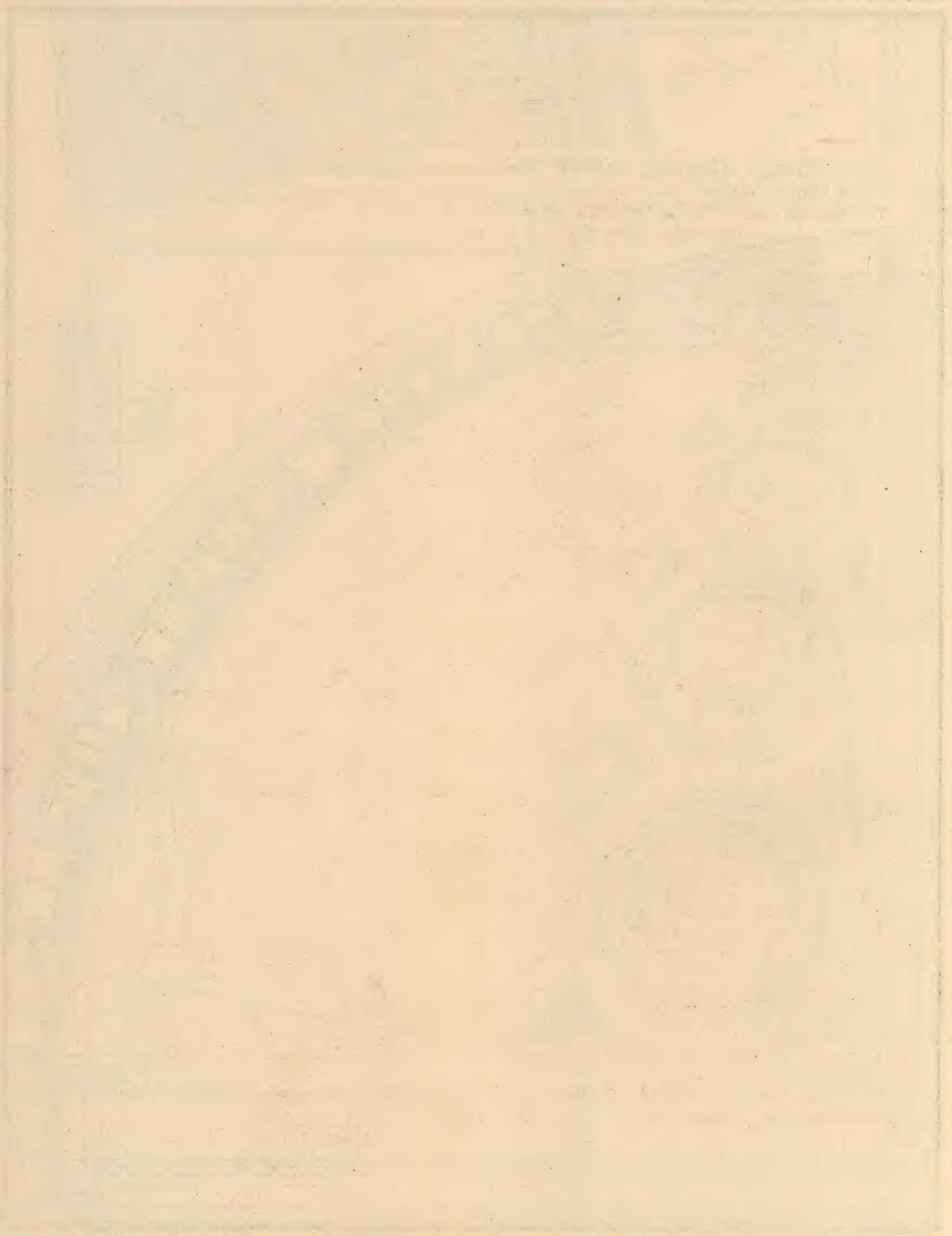
ELEVATION OF DOME  
SPRING LINE OF DOME

SECTION THRU DOME  
"X"

DRAIN HOLE

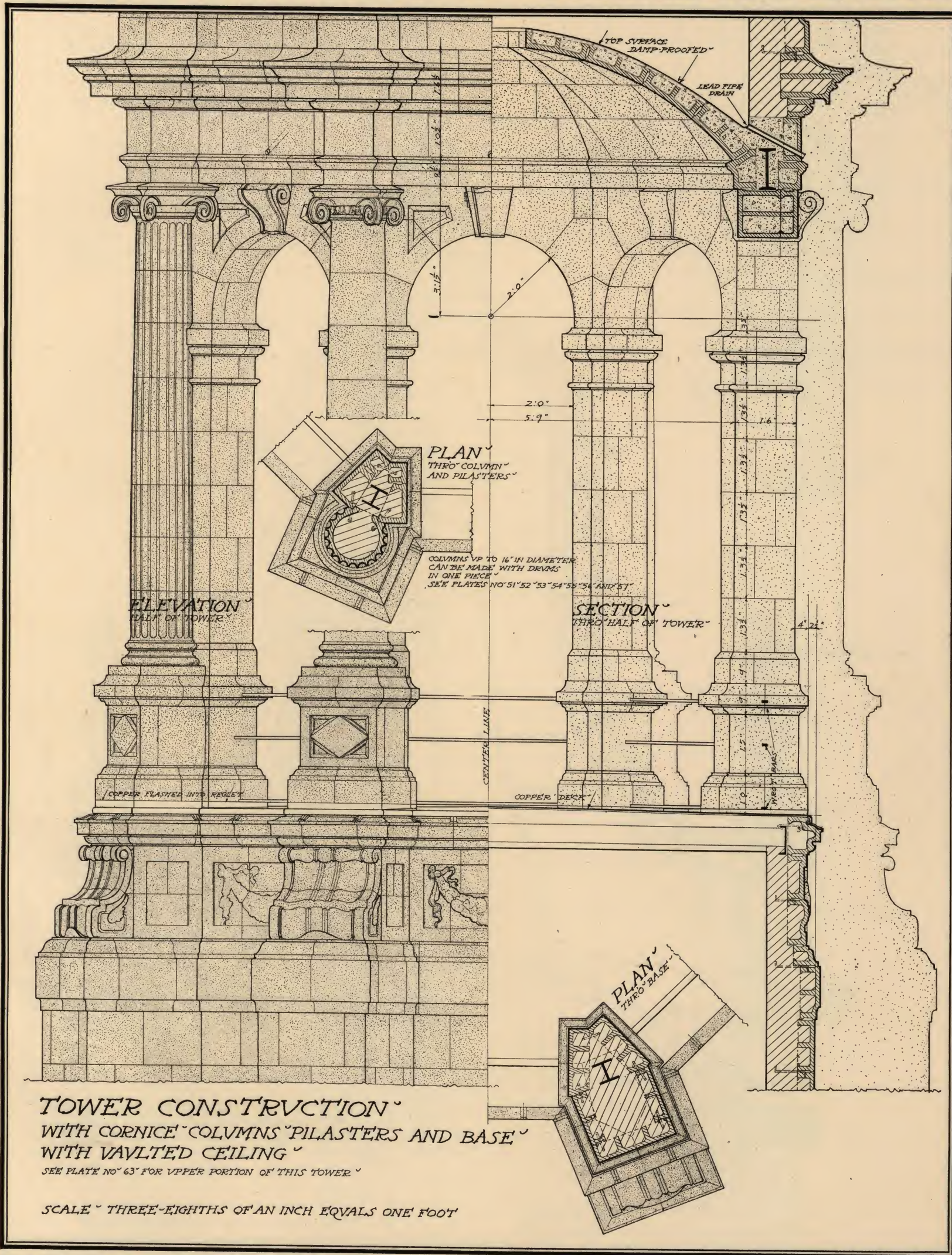
10'6" RADIUS







# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





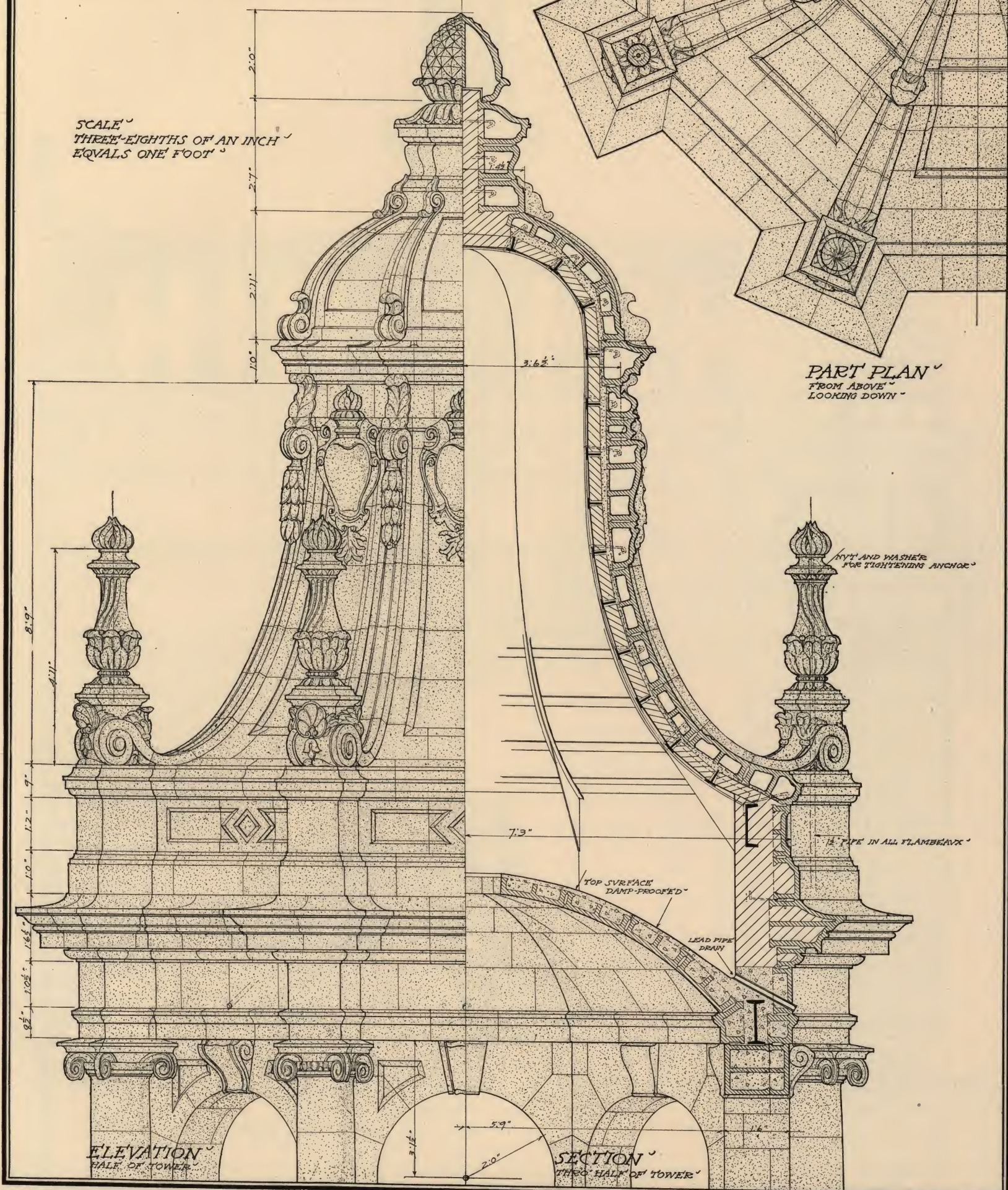




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

TOWER CONSTRUCTION  
WITH CORNICE FLAMBEAUX  
CAROUCES RIBS AND CROWN  
SEE PLATE NO. 62 FOR LOWER PORTION OF THIS TOWER

SCALE  
THREE-EIGHTHS OF AN INCH  
EQUALS ONE FOOT









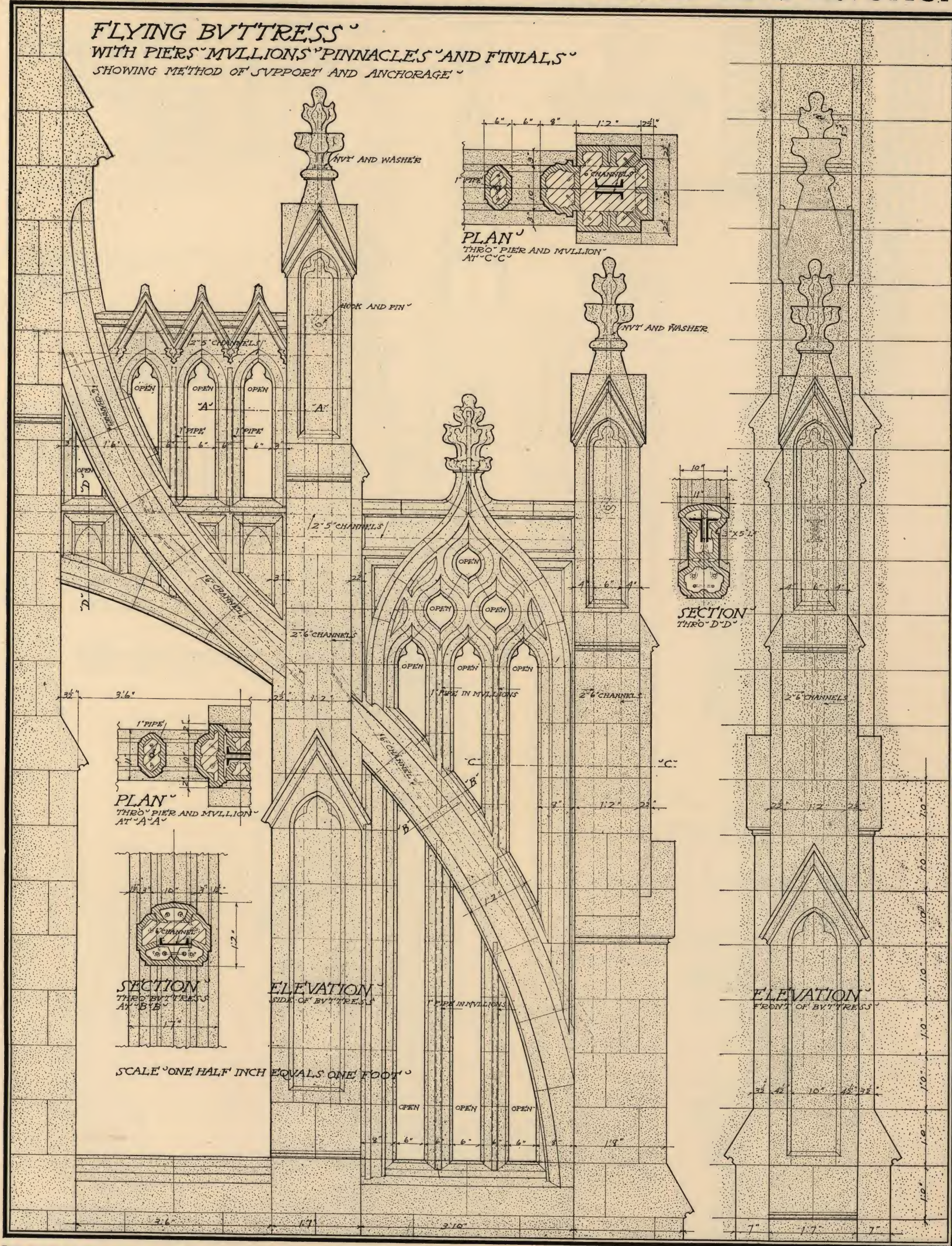
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# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

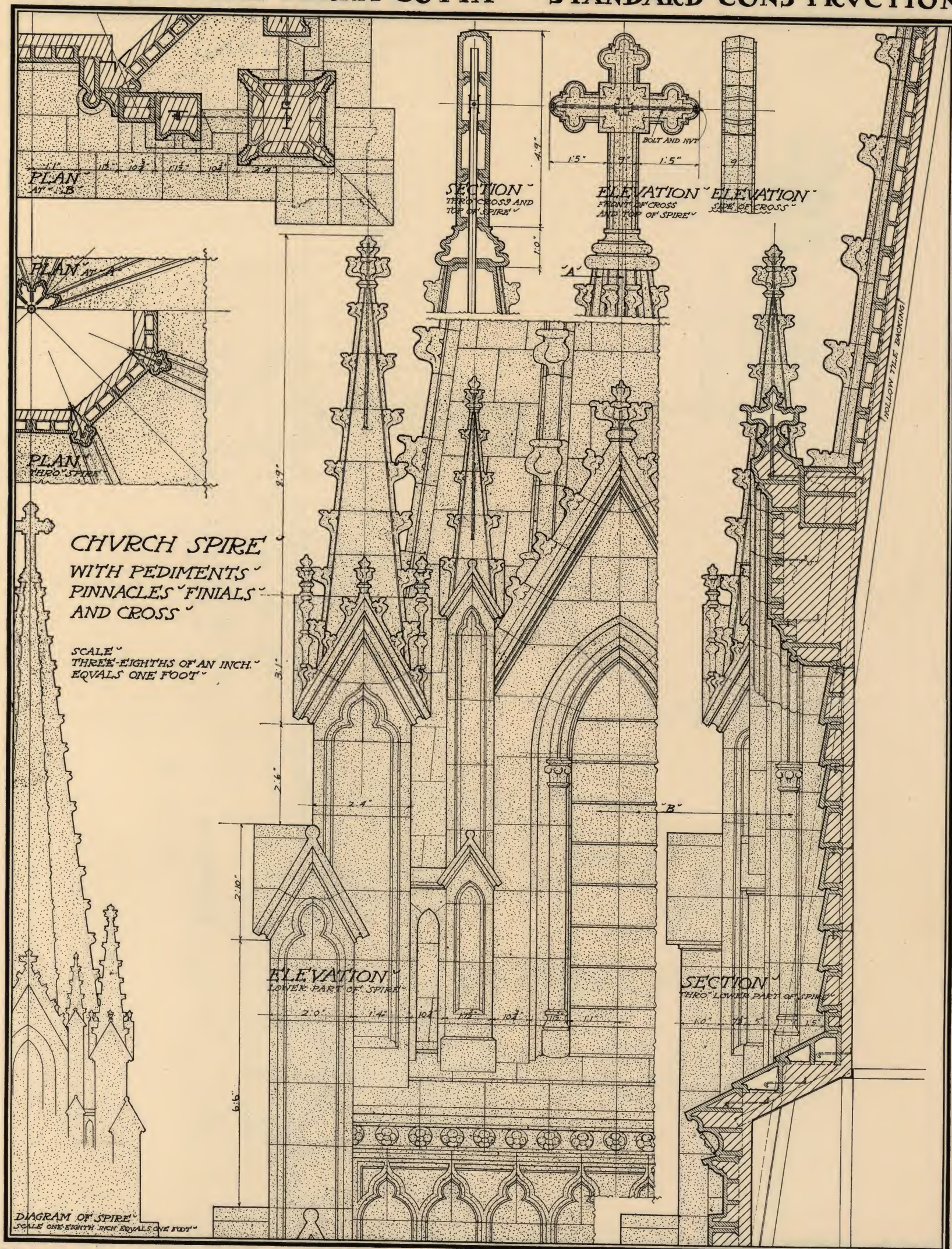








# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION



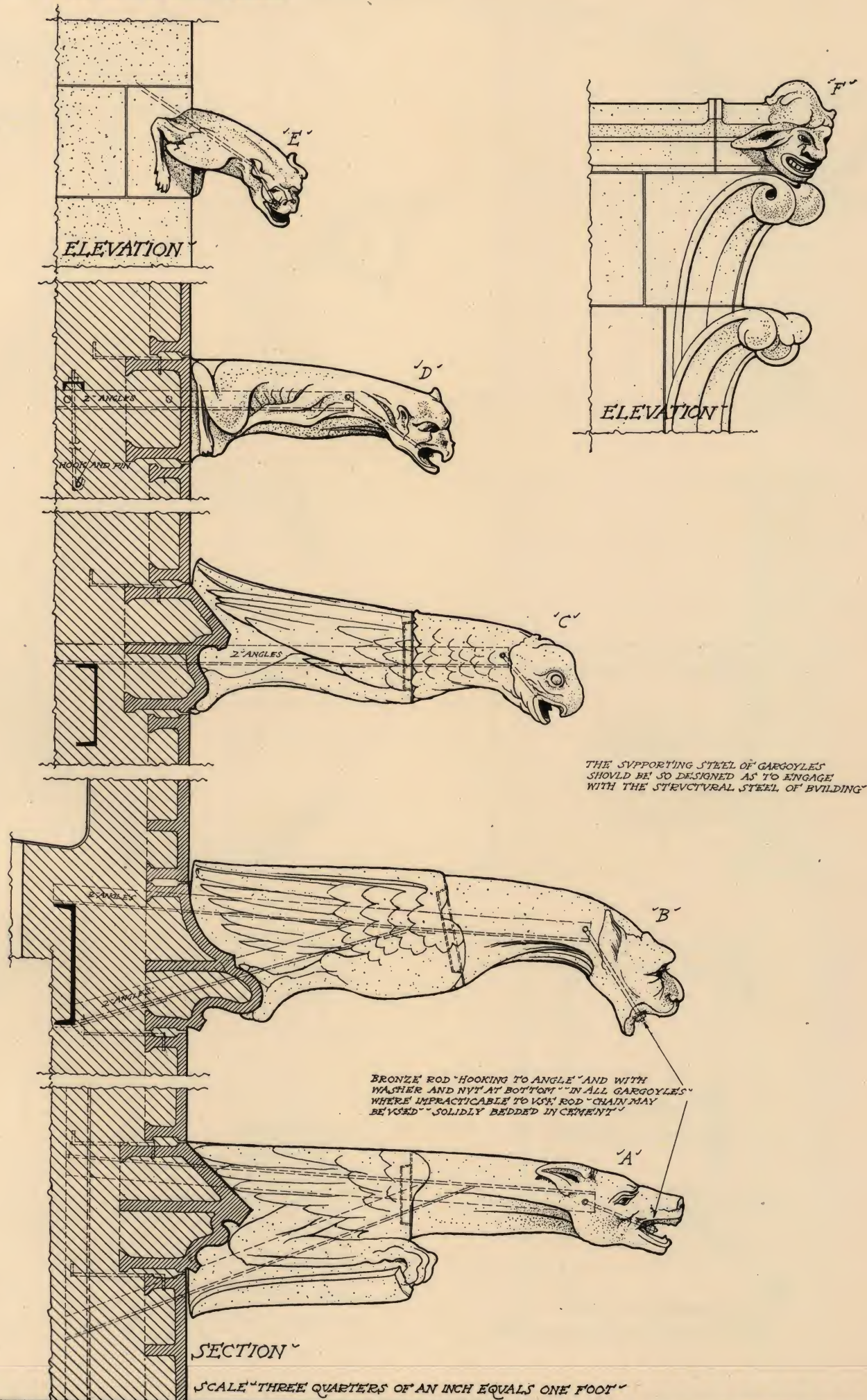




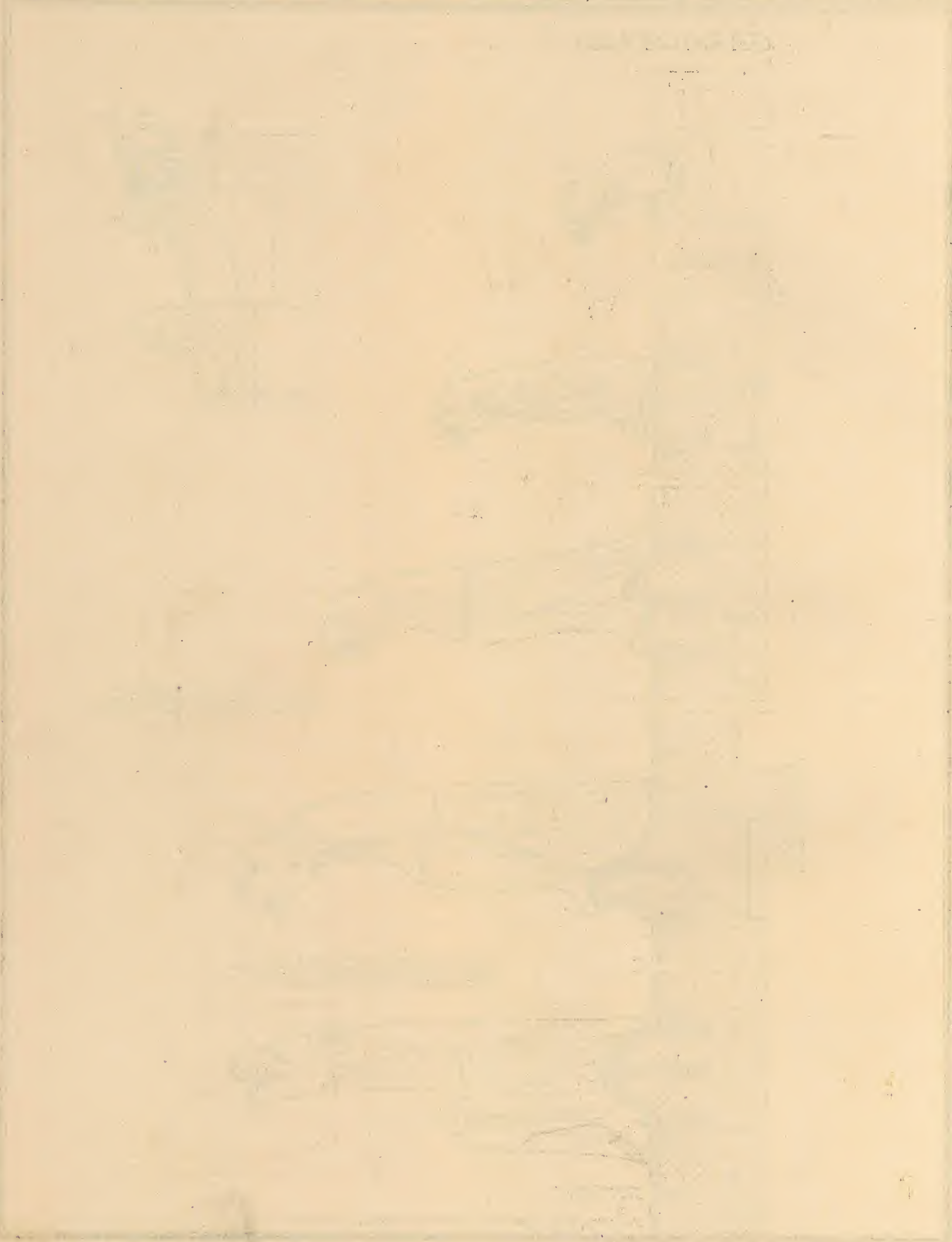


# ARCHITECTURAL TERRA COTTA · STANDARD CONSTRUCTION

## GARGOYLES









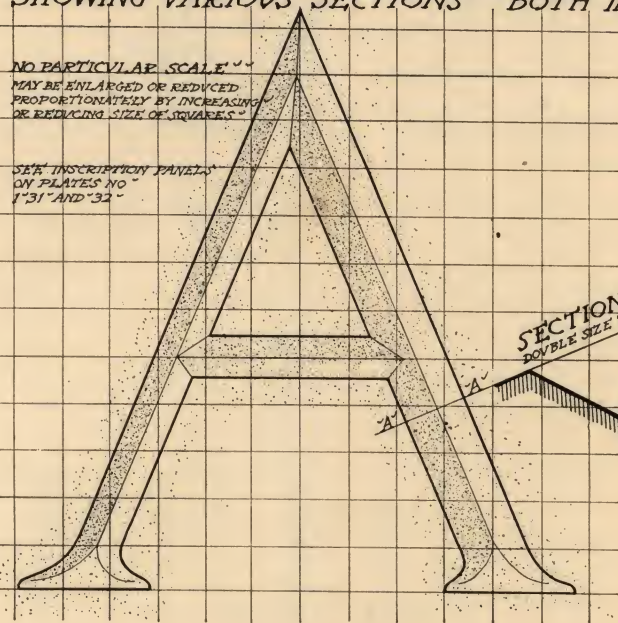
# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## LETTERING

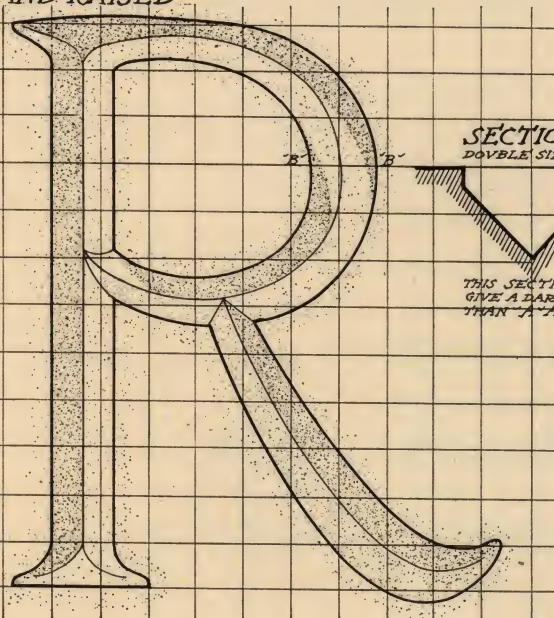
SHOWING VARIOUS SECTIONS · · · BOTH INCISED AND RAISED ·

NO PARTICULAR SCALE · · ·  
MAY BE ENLARGED OR REDUCED  
PROPORTIONATELY BY INCREASING  
OR REDUCING SIZE OF SQUARES ·

SEE INSCRIPTION PANELS  
ON PLATES NO ·  
1-31 AND 32 ·

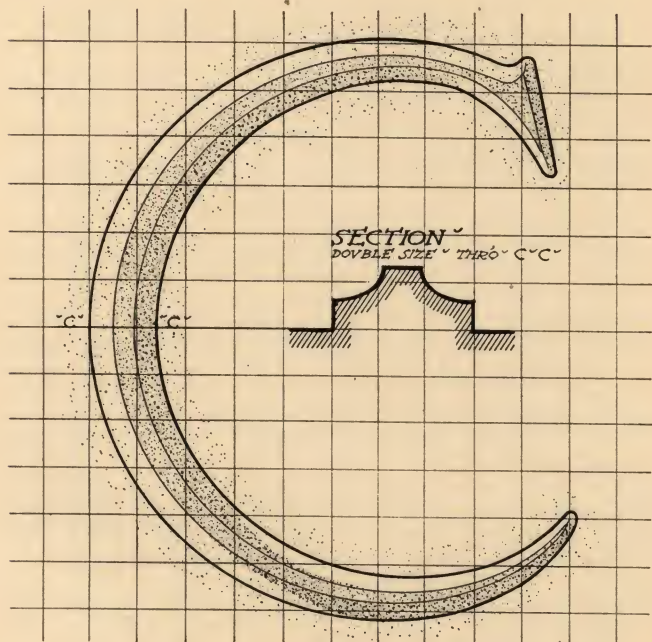


SECTION ·  
DOUBLE SIZE THRO' A-A ·

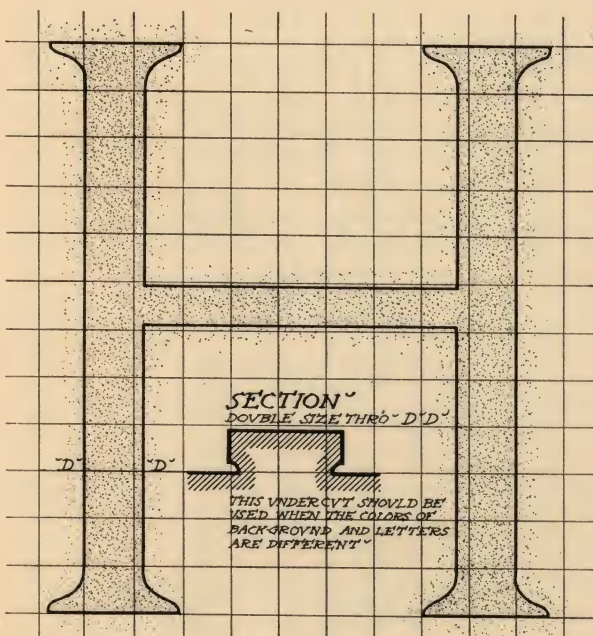


SECTION ·  
DOUBLE SIZE THRO' B-B ·

THIS SECTION WILL  
GIVE A DARKER SHADOW  
THAN A-A ·

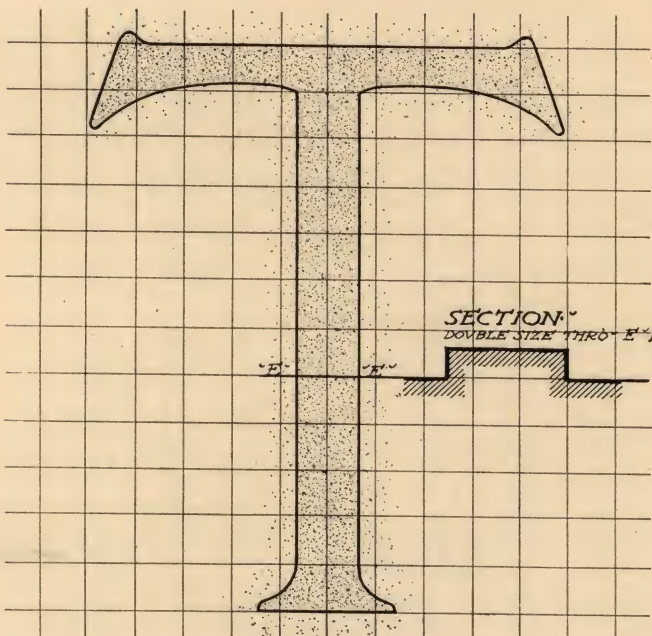


SECTION ·  
DOUBLE SIZE THRO' C-C ·

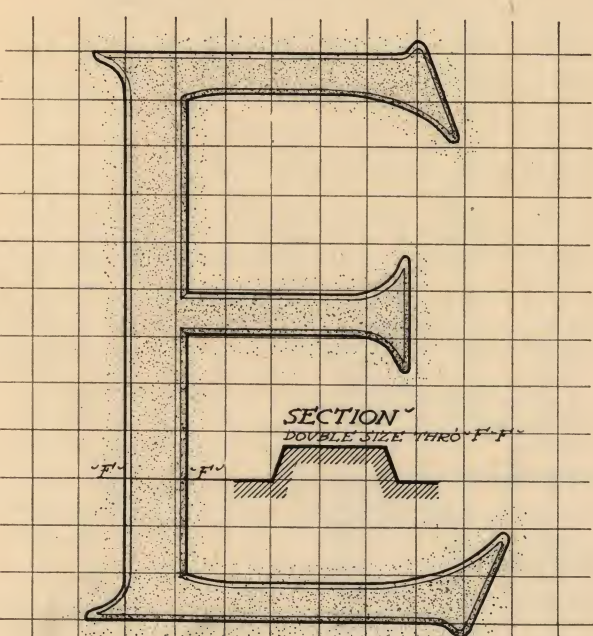


SECTION ·  
DOUBLE SIZE THRO' D-D ·

THIS UNDER CUT SHOULD BE  
USED WHEN THE COLORS OF  
BACKGROUND AND LETTERS  
ARE DIFFERENT ·

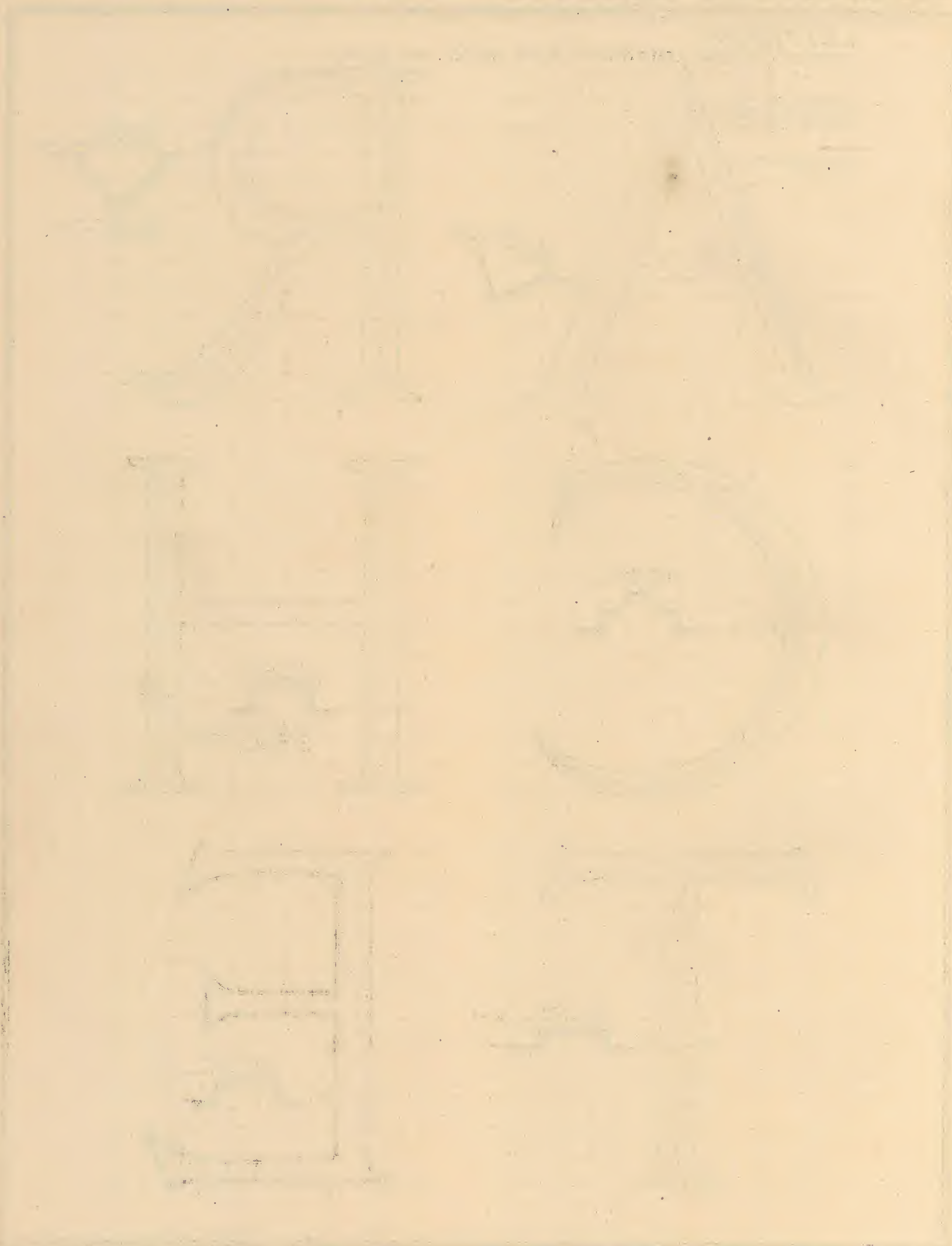


SECTION ·  
DOUBLE SIZE THRO' E-E ·



SECTION ·  
DOUBLE SIZE THRO' F-F ·



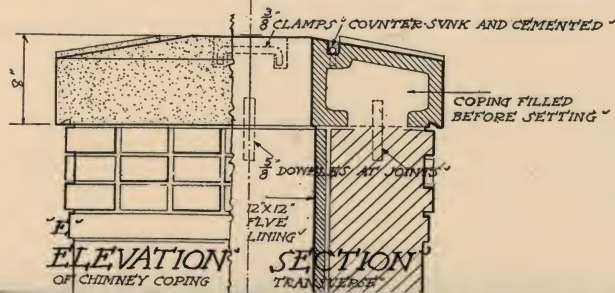
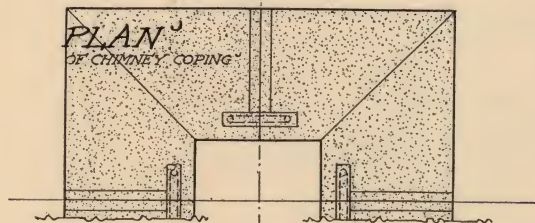
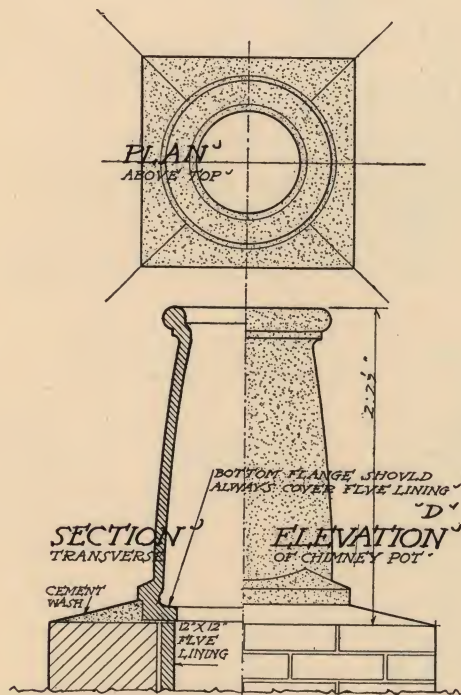
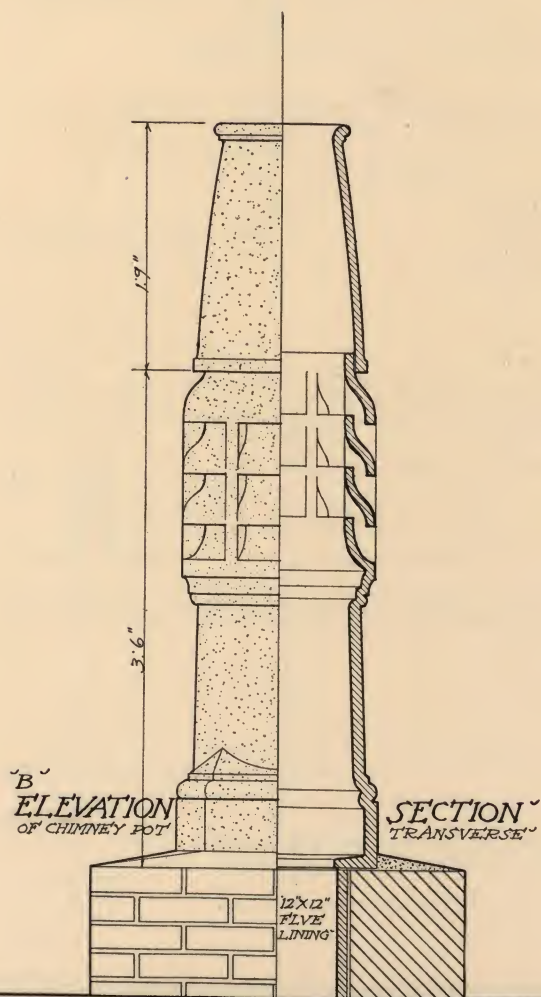
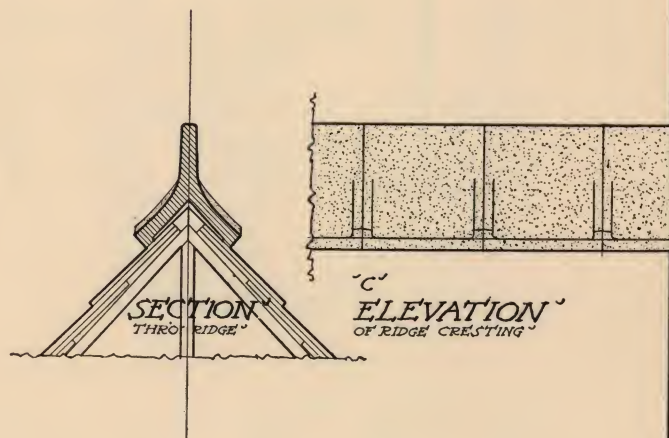
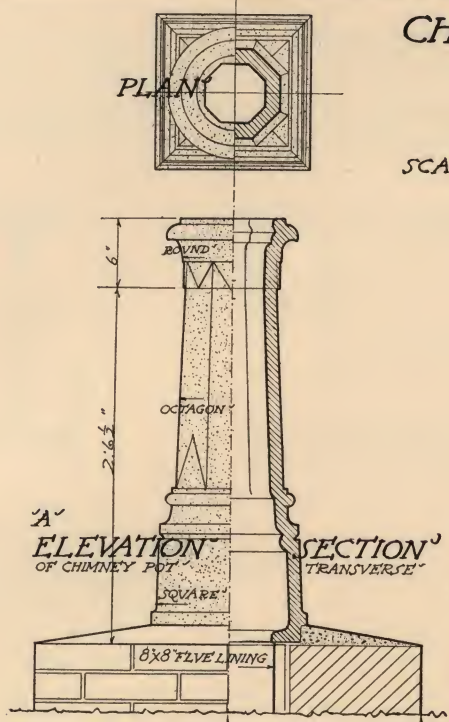




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## CHIMNEY POTS · COPING AND RIDGE CRESTING

SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT





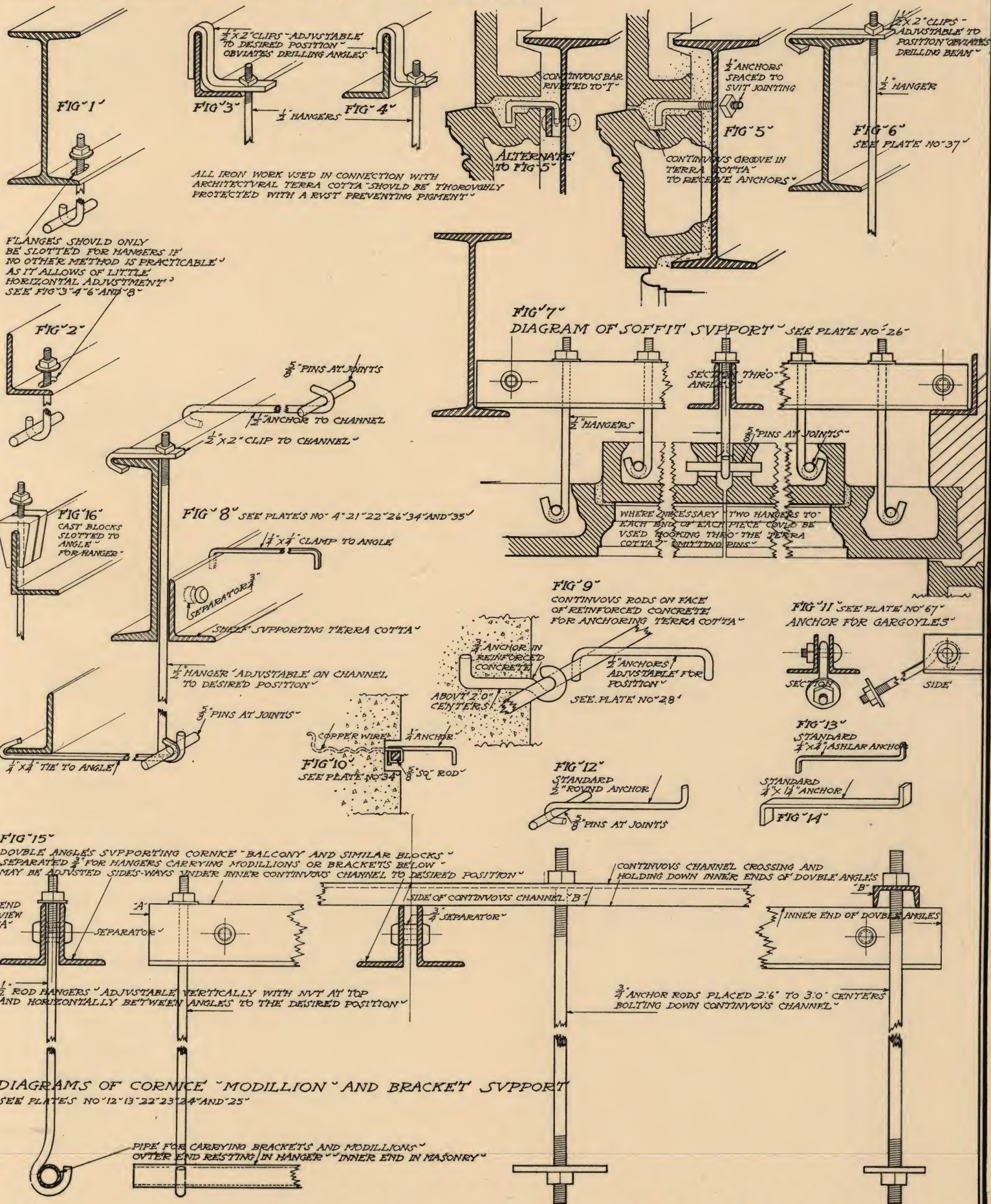




# ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

## DETAILS OF IRON ANCHORS · HANGERS · STRAPS · CLIPS · ETC · USED IN SETTING ARCHITECTURAL TERRA COTTA

STRUCTURAL STEEL WHEN ERECTED FREQUENTLY VARIES FROM EXACT FIGURED DIMENSIONS · · · FOR THIS REASON ALL SUPPORTS FOR TERRA COTTA INCLUDING ANGLES · RODS · ANCHORS · ETC · SHOULD BE DESIGNED SO AS TO PERMIT OF EASY ADJUSTMENT TO THE REASONABLE REQUIREMENTS OF CONSTRUCTION WHEN THE MATERIAL IS BEING SET

















## Index—Continued

### C—Continued

- Concealed Joints, Notes on*... 2, 5, 6, 7, 10  
44, 45, 51, 57, 59
- Concrete*
- Platforms (Balcony)..... 12, 13
  - Terra Cotta Construction with..... 27, 28, 34
- Consols*..... 3, 62
- Copings*
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